Series NLC

AVENTICS™ Series NLC

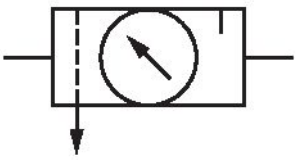
EMERSON.

Universal air preparation unit, Series NLC - inch

R412010824

General series information
AVENTICS Series NLC Air Preparation Units

- The AVENTICS Series NLC combines a pressure regulator, lubricator and filter all in one unit.



Technical data

Industry	Industrial
Parts	Air preparation units Pressure regulator Filter Lubricator
Reservoir	reservoir, polycarbonate, with metal protective guard
Port	1/4 NPT
Nominal flow Qn	1400 l/min
Filter porosity	40 µm
Condensate drain	semi-automatic, open without pressure
Pressure gauge	with pressure gauge
Working pressure min.	0.5 bar
Working pressure max	16 bar

Min. ambient temperature	-10 °C
Max. ambient temperature	60 °C
Regulation range min.	0.5 bar
Regulation range max.	10 bar
Lock type	not lockable
Type	1-part
Pressure supply	single
Mounting orientation	vertical
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Filter element	exchangeable
Filter reservoir volume	25 cm³
Lubricator reservoir volume	75 cm³
Type of filling	Manual oil filling
Oil dosing at 1000 l/min	1-2 drops
Medium	Compressed air Neutral gases
Min. medium temperature	-10 °C
Max. medium temperature	60 °C
Weight	1.43 kg

Material

Housing material	Die cast zinc
Seal material	Acrylonitrile butadiene rubber
Material reservoir	Polycarbonate
Material protective guard	Steel, chrome-plated
Material filter insert	Sintered bronze
Part No.	R412010824

Technical information

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

Manual oil filling possible during operation.

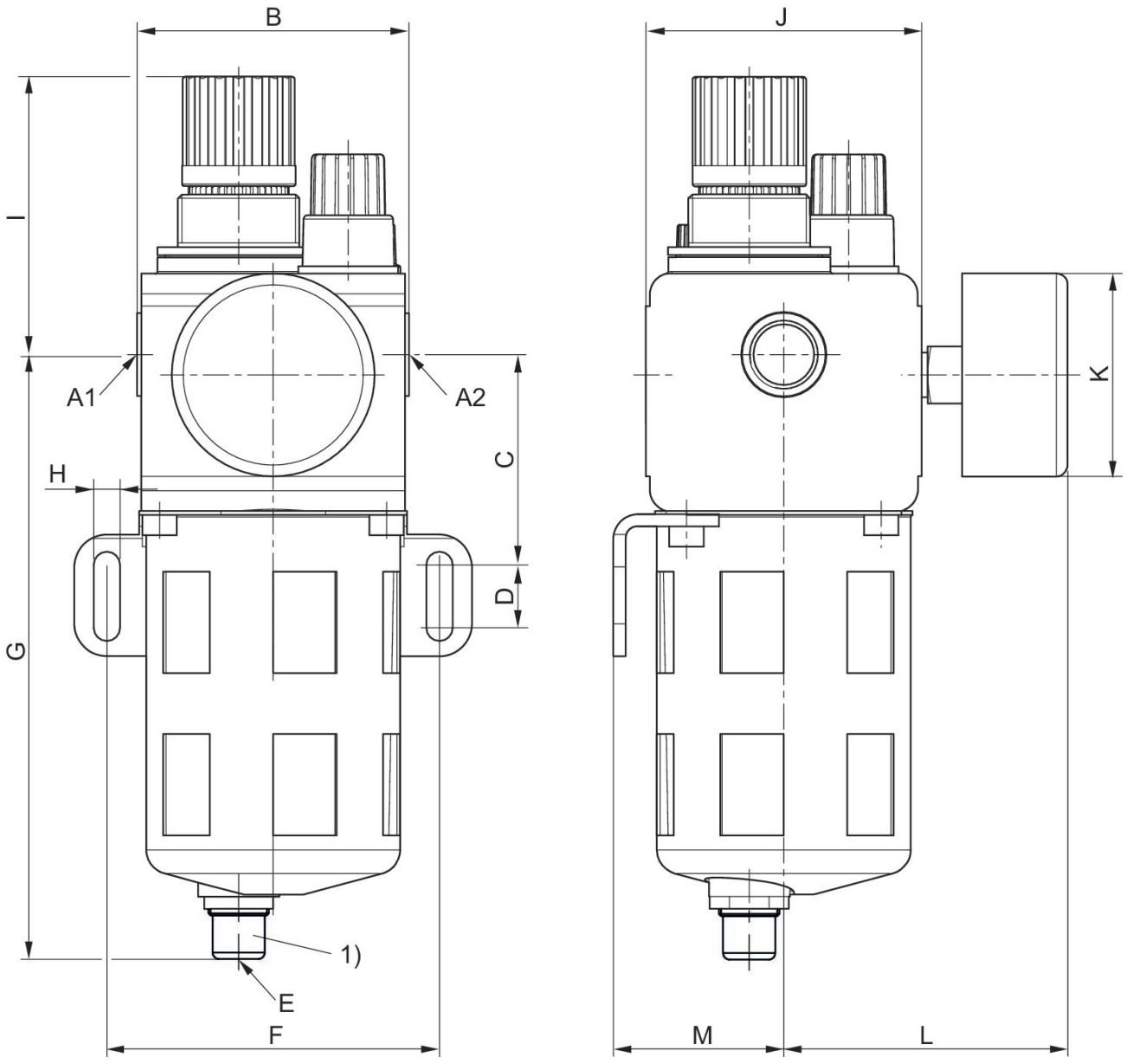
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions

Frame size 2



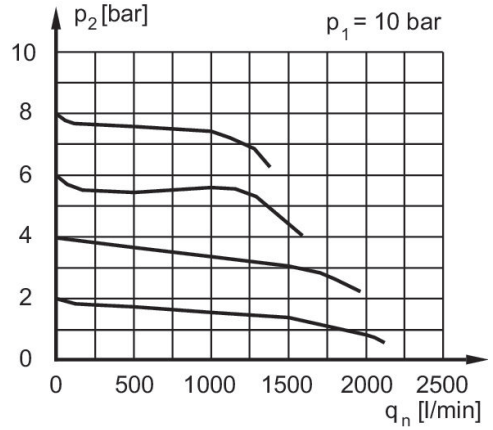
A1 = input A2 = output
1) Semi-automatic condensate drain

Dimensions in inches

Part No.	A1	A2	B	C	D	E	F	G	H
R412010824	1/4 NPT	1/4 NPT	2.6	2.05	0.61	SW5	3.23	5.83	0.26
R412010825	3/8 NPT	3/8 NPT	2.6	2.05	0.61	SW5	3.23	5.83	0.26

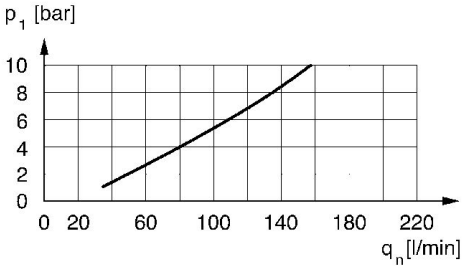
Part No.	I	J	K	L	M
R412010824	2.72	2.56	1.97	2.76	1.65
R412010825	2.72	2.56	1.97	2.76	1.65

Flow rate characteristic, size 2



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Lubricator activation margin, size 2



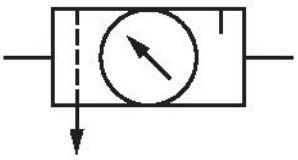
p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Universal air preparation unit, Series NLC - inch

R412010825

General series information
AVENTICS Series NLC Air Preparation Units

- The AVENTICS Series NLC combines a pressure regulator, lubricator and filter all in one unit.



Technical data

Industry	Industrial
Parts	Air preparation units Pressure regulator Filter Lubricator
Reservoir	reservoir, polycarbonate, with metal protective guard
Port	3/8 NPT
Nominal flow Qn	1400 l/min
Filter porosity	40 µm
Condensate drain	semi-automatic, open without pressure
Pressure gauge	with pressure gauge
Working pressure min.	0.5 bar
Working pressure max	16 bar

Min. ambient temperature	-10 °C
Max. ambient temperature	60 °C
Regulation range min.	0.5 bar
Regulation range max.	10 bar
Lock type	not lockable
Type	1-part
Pressure supply	single
Mounting orientation	vertical
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Filter element	exchangeable
Filter reservoir volume	25 cm³
Lubricator reservoir volume	75 cm³
Type of filling	Manual oil filling
Oil dosing at 1000 l/min	1-2 drops
Medium	Compressed air Neutral gases
Min. medium temperature	-10 °C
Max. medium temperature	60 °C
Weight	1.41 kg

Material

Housing material	Die cast zinc
Seal material	Acrylonitrile butadiene rubber
Material reservoir	Polycarbonate
Material protective guard	Steel, chrome-plated
Material filter insert	Sintered bronze
Part No.	R412010825

Technical information

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

Manual oil filling possible during operation.

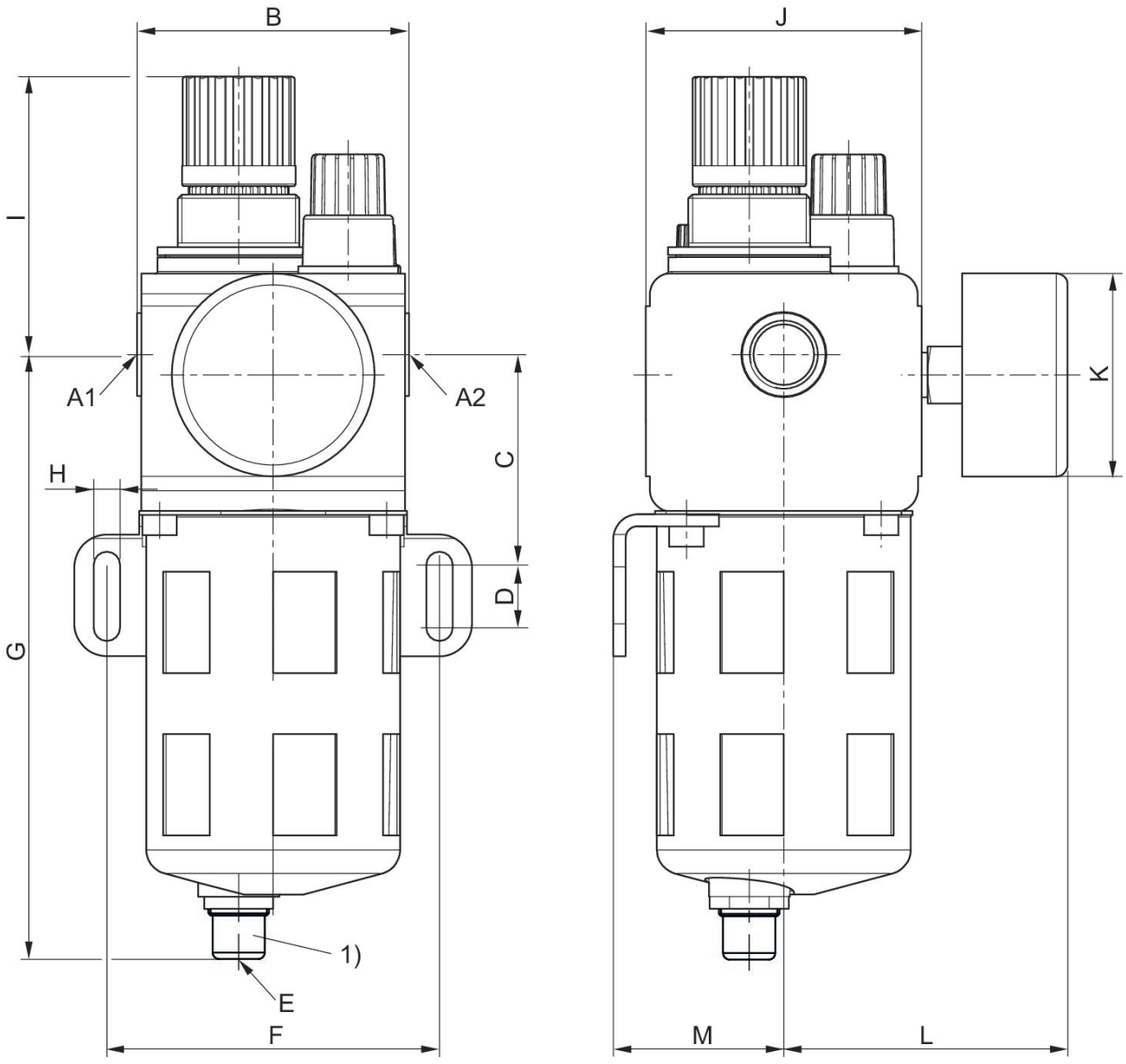
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions

Frame size 2



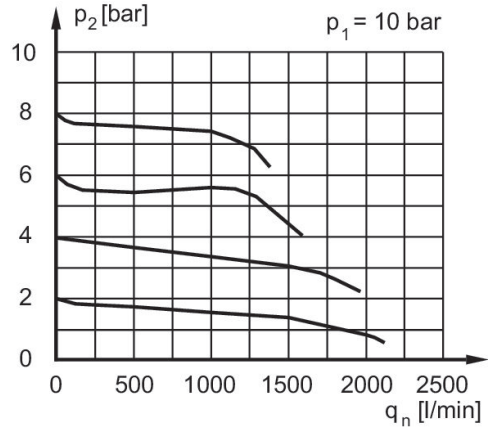
A1 = input A2 = output
1) Semi-automatic condensate drain

Dimensions in inches

Part No.	A1	A2	B	C	D	E	F	G	H
R412010824	1/4 NPT	1/4 NPT	2.6	2.05	0.61	SW5	3.23	5.83	0.26
R412010825	3/8 NPT	3/8 NPT	2.6	2.05	0.61	SW5	3.23	5.83	0.26

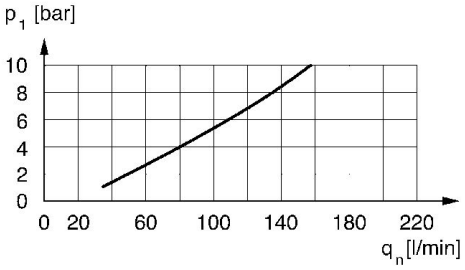
Part No.	I	J	K	L	M
R412010824	2.72	2.56	1.97	2.76	1.65
R412010825	2.72	2.56	1.97	2.76	1.65

Flow rate characteristic, size 2



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Lubricator activation margin, size 2



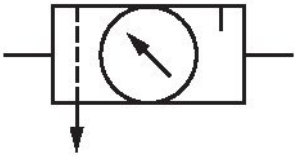
p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Universal air preparation unit, Series NLC

R412010828

General series information
AVENTICS Series NLC Air Preparation Units

- The AVENTICS Series NLC combines a pressure regulator, lubricator and filter all in one unit.



Technical data

Industry	Industrial
Parts	Air preparation units Pressure regulator Filter Lubricator
Reservoir	reservoir, polycarbonate, with metal protective guard
Port	G 1/4
Nominal flow Qn	1400 l/min
Filter porosity	40 µm
Condensate drain	semi-automatic, open without pressure
Pressure gauge	with pressure gauge
Working pressure min.	0.5 bar
Working pressure max	16 bar
Min. ambient temperature	-10 °C
Max. ambient temperature	60 °C

Regulation range min.	0.5 bar
Regulation range max.	10 bar
Lock type	not lockable
Type	1-part
Pressure supply	single
Mounting orientation	vertical
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Filter element	exchangeable
Filter reservoir volume	25 cm³
Lubricator reservoir volume	75 cm³
Type of filling	Manual oil filling
Oil dosing at 1000 l/min	1-2 drops
Medium	Compressed air Neutral gases
Weight	1.43 kg

Material

Housing material	Die cast zinc
Seal material	Acrylonitrile butadiene rubber
Material reservoir	Polycarbonate
Material protective guard	Steel, chrome-plated
Material filter insert	Sintered bronze
Part No.	R412010828

Technical information

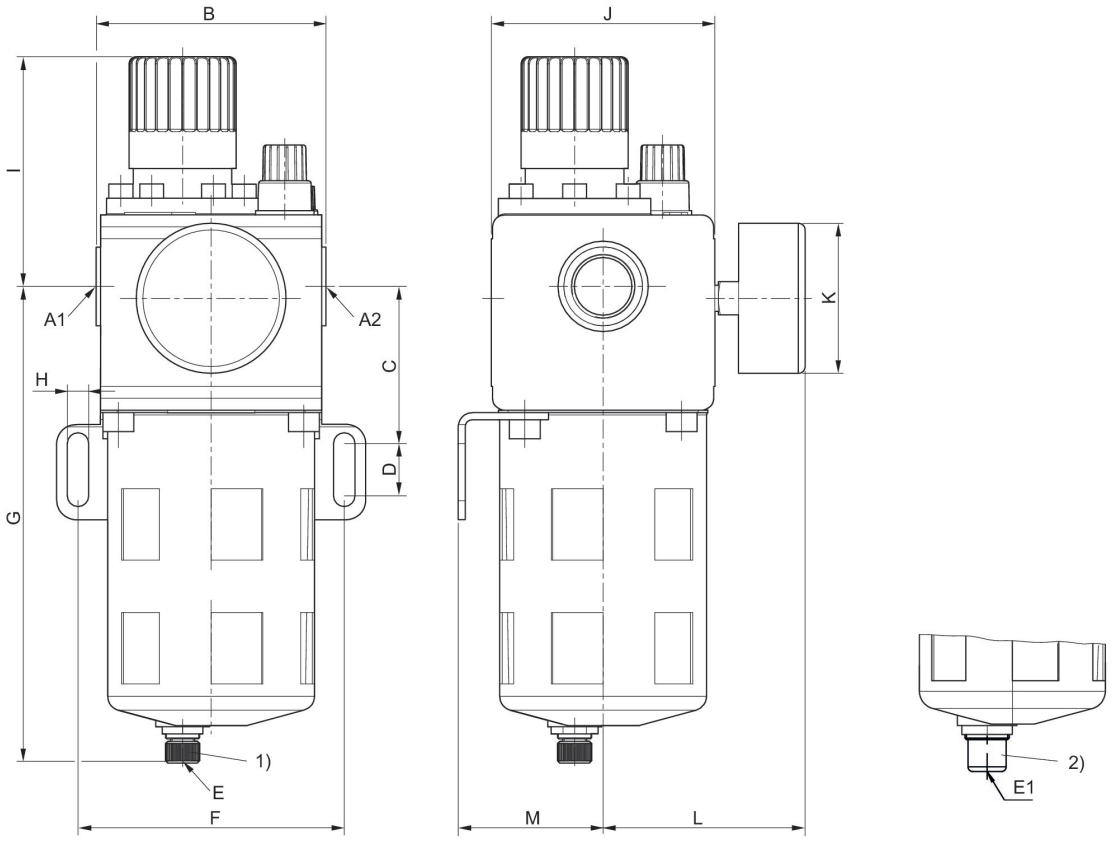
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

Manual oil filling possible during operation.

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions

Frame size 4



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

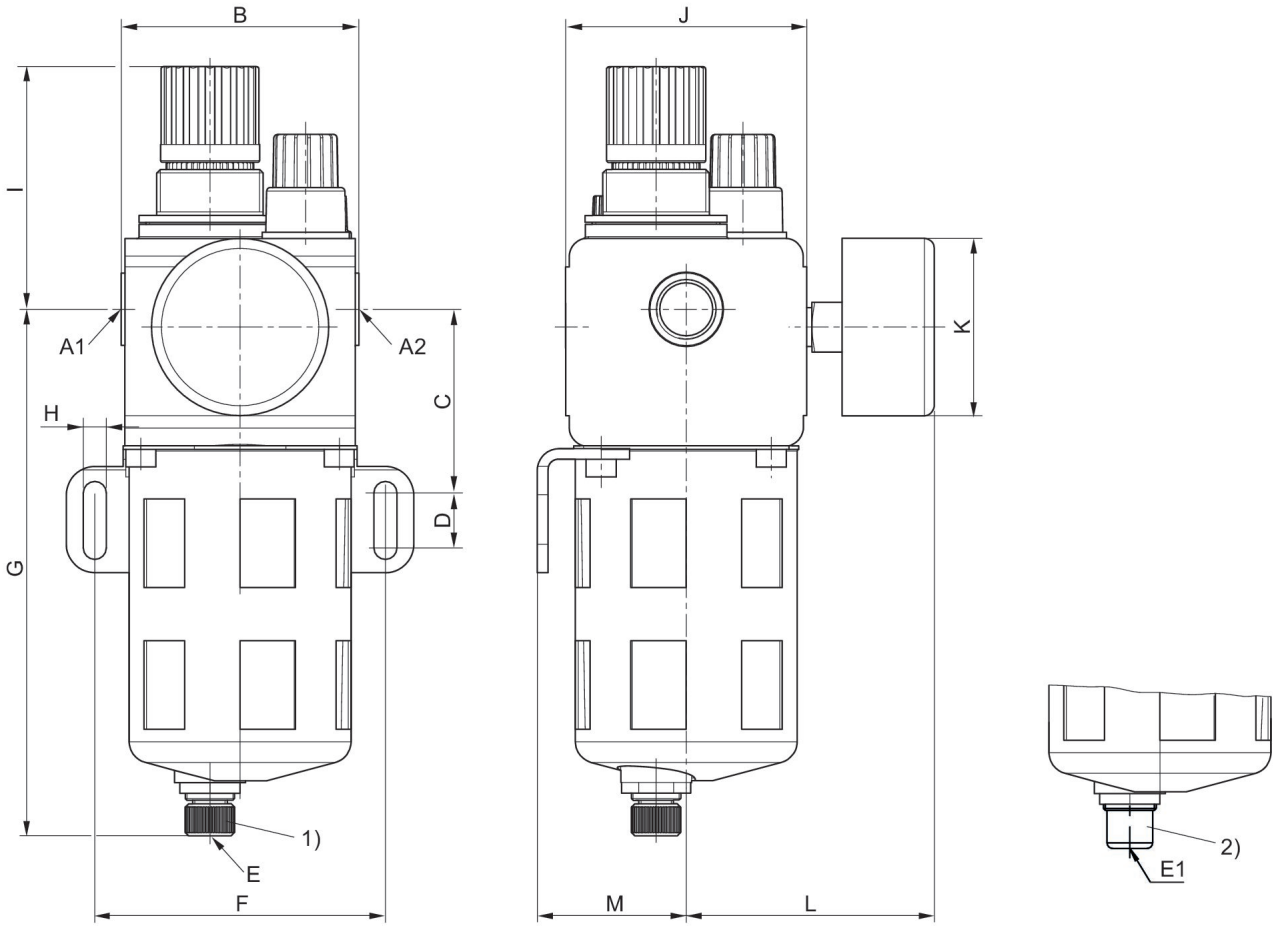
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300040	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300060	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010830	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300042	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300062	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010831	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200

Part No.	H	I	J	K	L	M
0821300040	9	97	92	63	85	61
0821300060	9	97	92	63	85	61
R412010830	9	97	92	63	85	61
0821300042	9	97	92	63	85	61
0821300062	9	97	92	63	85	61
R412010831	9	97	92	63	85	61

Dimensions

Frame size 2



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

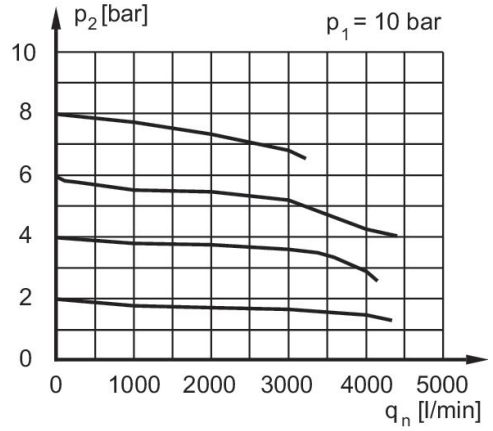
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300030	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300050	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010828	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300032	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300052	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010829	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148

Part No.	H	I	J	K	L	M
0821300030	6.5	69	65	50	70	42
0821300050	6.5	69	65	50	70	42
R412010828	6.5	69	65	50	70	42
0821300032	6.5	69	65	50	70	42

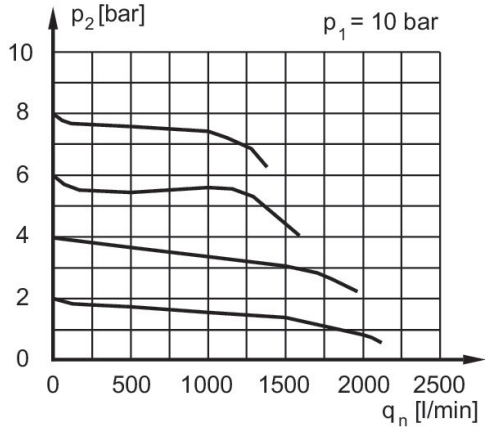
Part No.	H	I	J	K	L	M
0821300052	6.5	69	65	50	70	42
R412010829	6.5	69	65	50	70	42

Flow rate characteristic, size 4



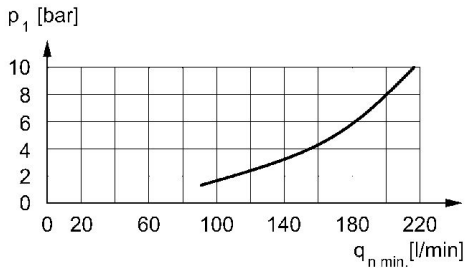
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Flow rate characteristic, size 2



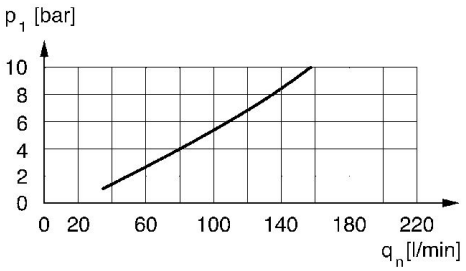
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Lubricator activation margin, size 4



p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Lubricator activation margin, size 2



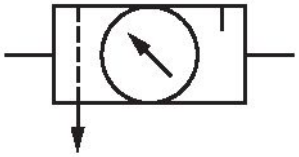
p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Universal air preparation unit, Series NLC

R412010829

General series information
AVENTICS Series NLC Air Preparation Units

- The AVENTICS Series NLC combines a pressure regulator, lubricator and filter all in one unit.



Technical data

Industry	Industrial
Parts	Air preparation units Pressure regulator Filter Lubricator
Reservoir	reservoir, polycarbonate, with metal protective guard
Port	G 3/8
Nominal flow Qn	1400 l/min
Filter porosity	40 µm
Condensate drain	semi-automatic, open without pressure
Pressure gauge	with pressure gauge
Working pressure min.	0.5 bar
Working pressure max	16 bar
Min. ambient temperature	-10 °C
Max. ambient temperature	60 °C

Regulation range min.	0.5 bar
Regulation range max.	10 bar
Lock type	not lockable
Type	1-part
Pressure supply	single
Mounting orientation	vertical
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Filter element	exchangeable
Filter reservoir volume	25 cm³
Lubricator reservoir volume	75 cm³
Type of filling	Manual oil filling
Oil dosing at 1000 l/min	1-2 drops
Medium	Compressed air Neutral gases
Weight	1.41 kg

Material

Housing material	Die cast zinc
Seal material	Acrylonitrile butadiene rubber
Material reservoir	Polycarbonate
Material protective guard	Steel, chrome-plated
Material filter insert	Sintered bronze
Part No.	R412010829

Technical information

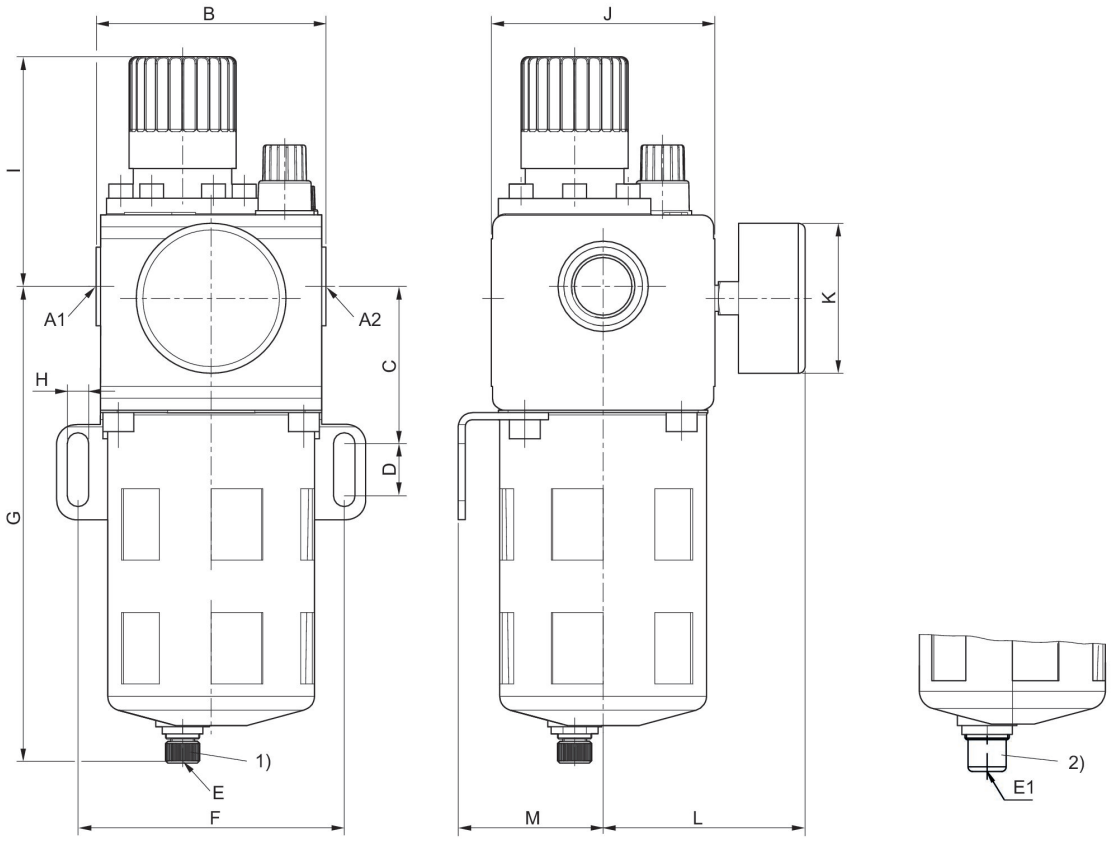
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

Manual oil filling possible during operation.

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions

Frame size 4



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

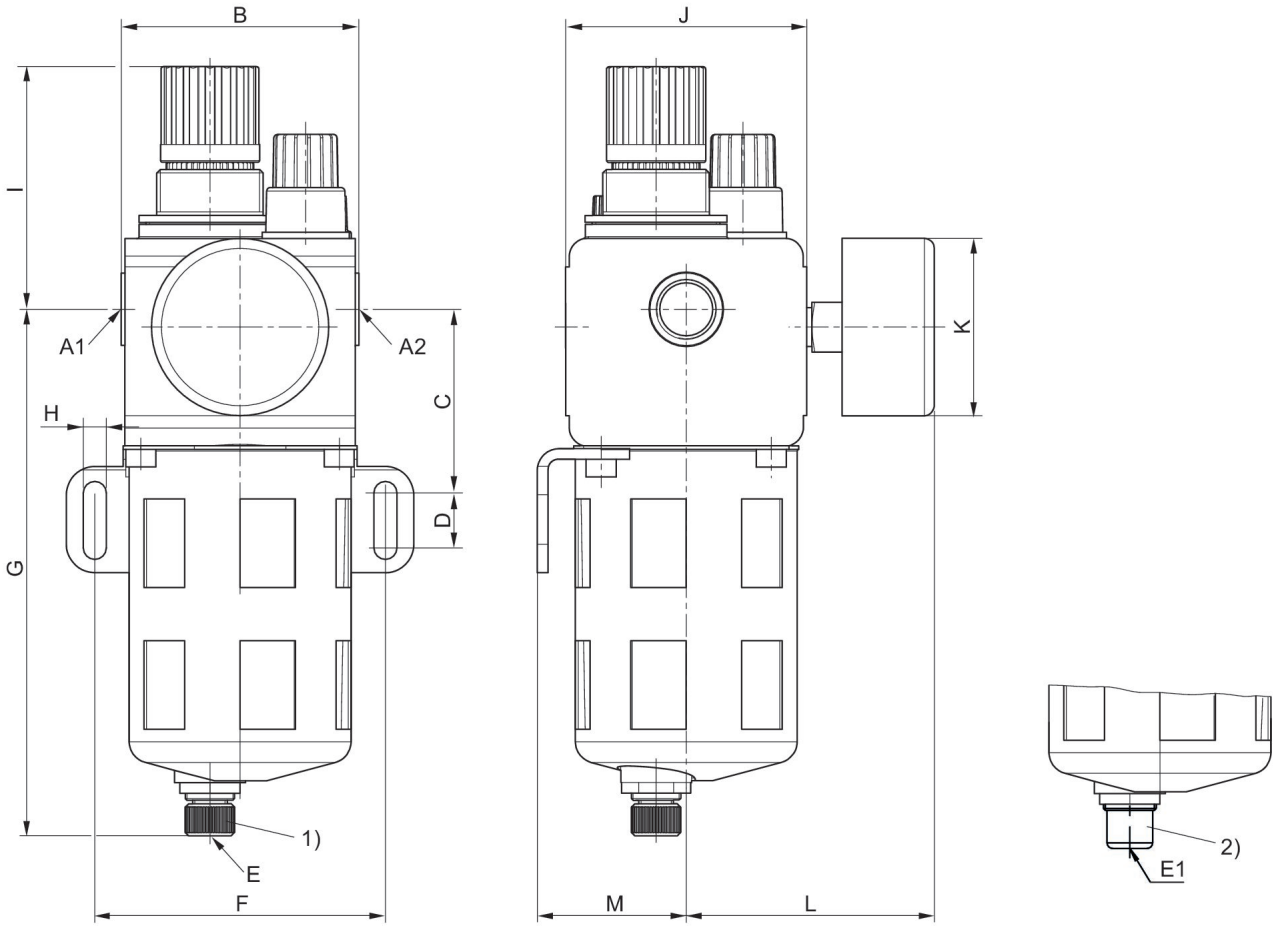
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300040	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300060	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010830	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300042	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300062	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010831	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200

Part No.	H	I	J	K	L	M
0821300040	9	97	92	63	85	61
0821300060	9	97	92	63	85	61
R412010830	9	97	92	63	85	61
0821300042	9	97	92	63	85	61
0821300062	9	97	92	63	85	61
R412010831	9	97	92	63	85	61

Dimensions

Frame size 2



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

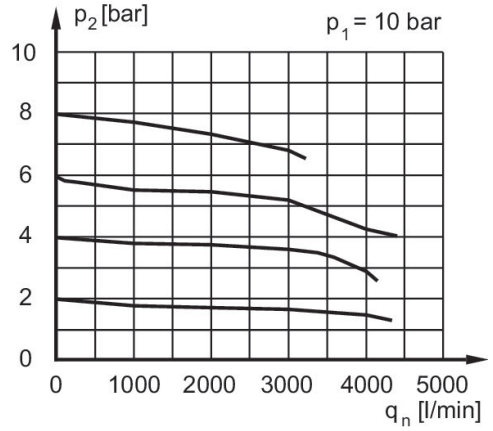
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300030	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300050	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010828	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300032	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300052	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010829	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148

Part No.	H	I	J	K	L	M
0821300030	6.5	69	65	50	70	42
0821300050	6.5	69	65	50	70	42
R412010828	6.5	69	65	50	70	42
0821300032	6.5	69	65	50	70	42

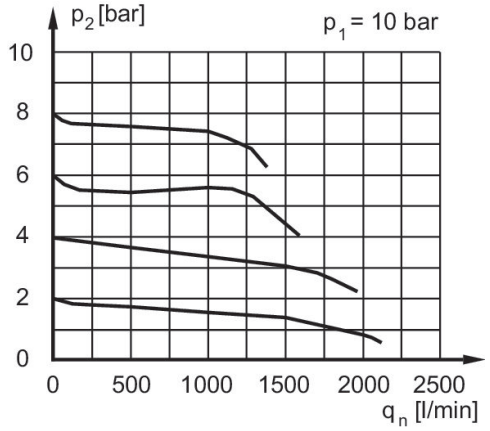
Part No.	H	I	J	K	L	M
0821300052	6.5	69	65	50	70	42
R412010829	6.5	69	65	50	70	42

Flow rate characteristic, size 4



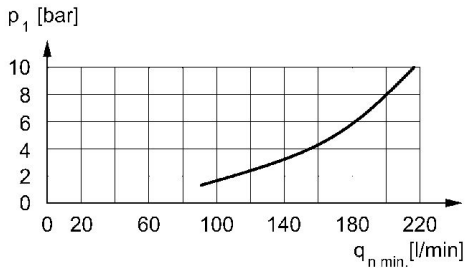
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Flow rate characteristic, size 2



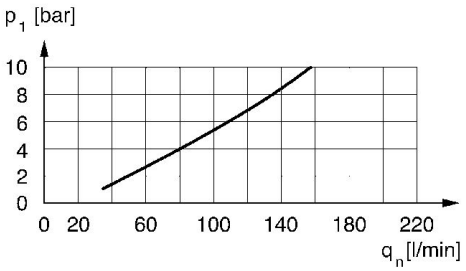
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Lubricator activation margin, size 4



p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Lubricator activation margin, size 2



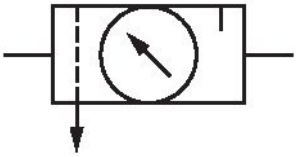
p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Universal air preparation unit, Series NLC

0821300030

General series information
AVENTICS Series NLC Air Preparation Units

- The AVENTICS Series NLC combines a pressure regulator, lubricator and filter all in one unit.



Technical data

Industry	Industrial
Parts	Air preparation units Pressure regulator Filter Lubricator
Reservoir	reservoir, polycarbonate, without protective guard
Port	G 1/4
Nominal flow Qn	1400 l/min
Filter porosity	40 µm
Condensate drain	Manual
Pressure gauge	with pressure gauge
Working pressure min.	0.5 bar
Working pressure max	16 bar
Min. ambient temperature	-10 °C
Max. ambient temperature	60 °C
Regulation range min.	0.5 bar

Regulation range max.	10 bar
Lock type	not lockable
Type	1-part
Pressure supply	single
Mounting orientation	vertical
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Filter element	exchangeable
Filter reservoir volume	25 cm³
Lubricator reservoir volume	75 cm³
Type of filling	Manual oil filling
Oil dosing at 1000 l/min	1-2 drops
Medium	Compressed air Neutral gases
Weight	1.32 kg

Material

Housing material	Die cast zinc
Seal material	Acrylonitrile butadiene rubber
Material reservoir	Polycarbonate
Material filter insert	Sintered bronze
Part No.	0821300030

Technical information

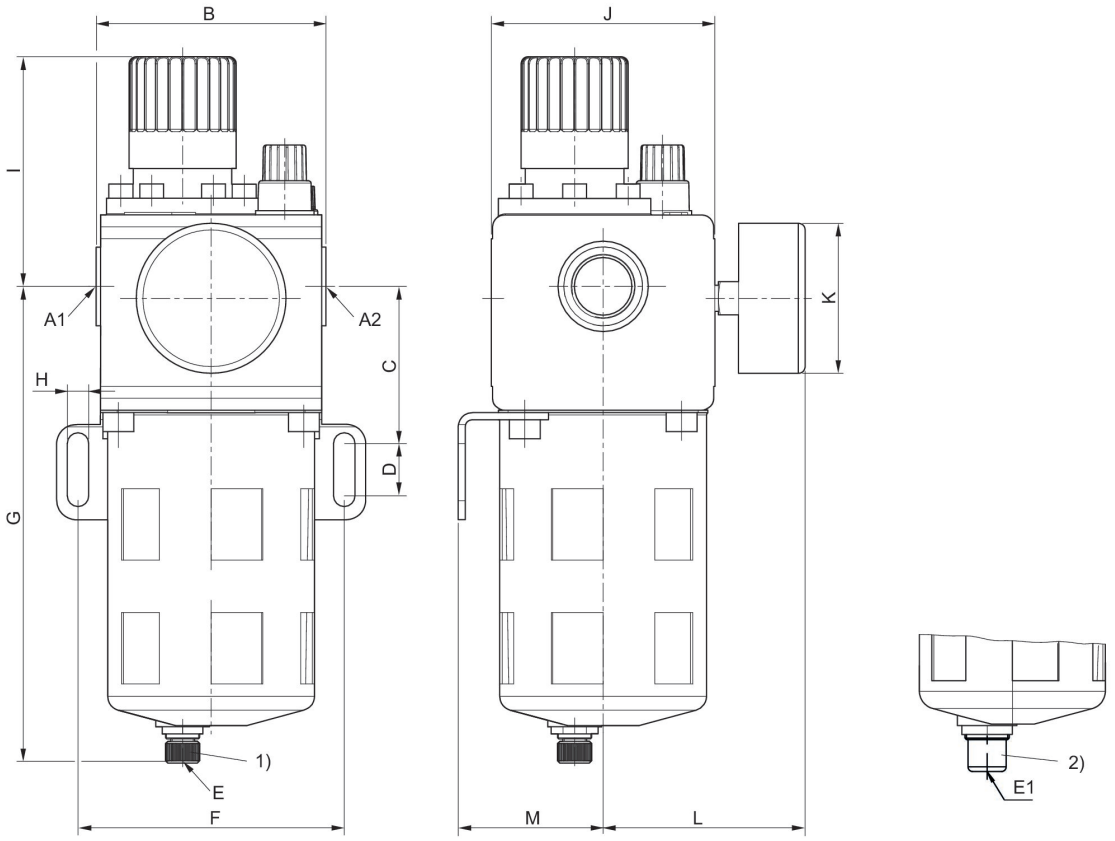
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

Manual oil filling possible during operation.

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions

Frame size 4



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

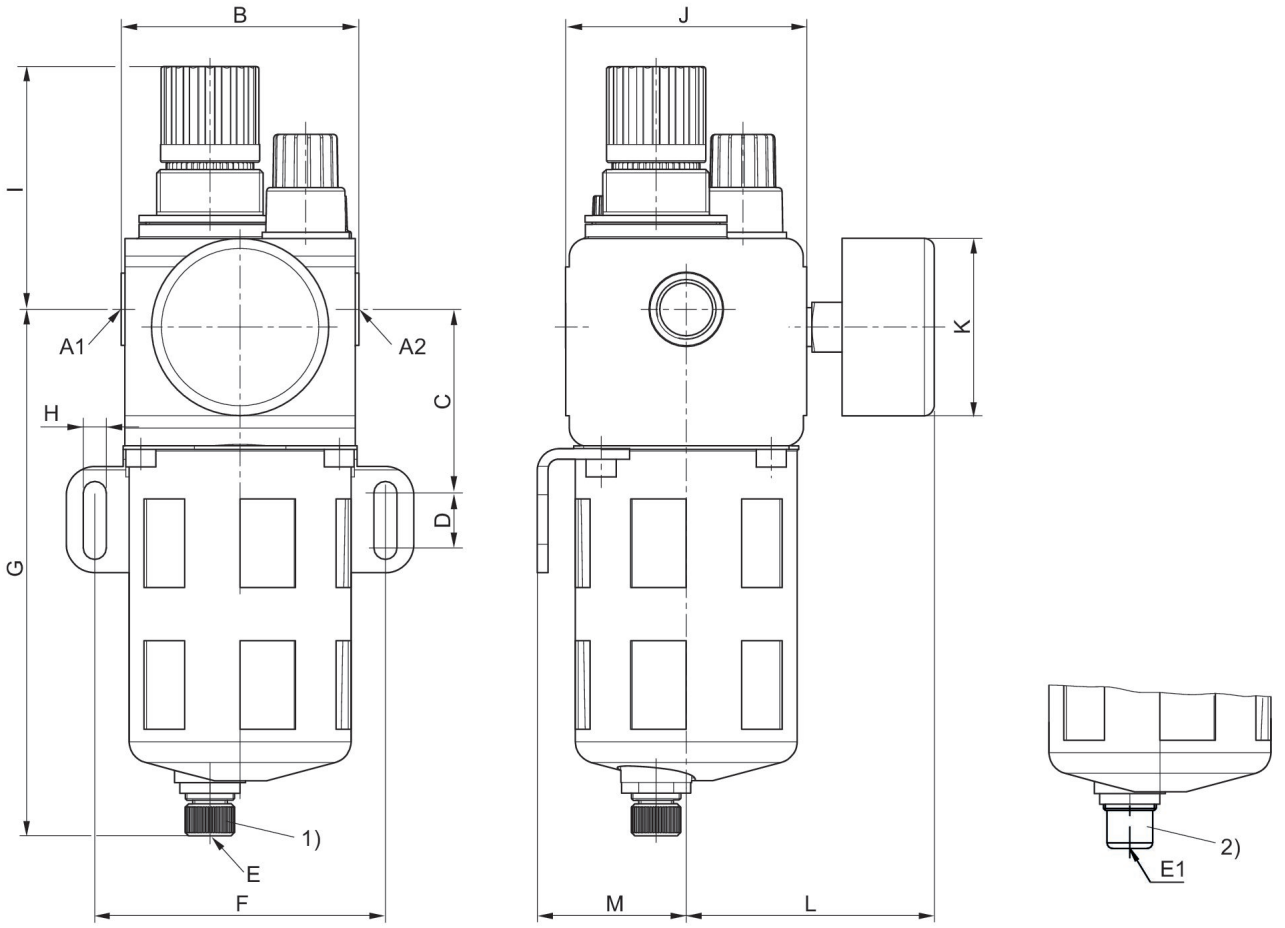
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300040	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300060	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010830	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300042	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300062	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010831	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200

Part No.	H	I	J	K	L	M
0821300040	9	97	92	63	85	61
0821300060	9	97	92	63	85	61
R412010830	9	97	92	63	85	61
0821300042	9	97	92	63	85	61
0821300062	9	97	92	63	85	61
R412010831	9	97	92	63	85	61

Dimensions

Frame size 2



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

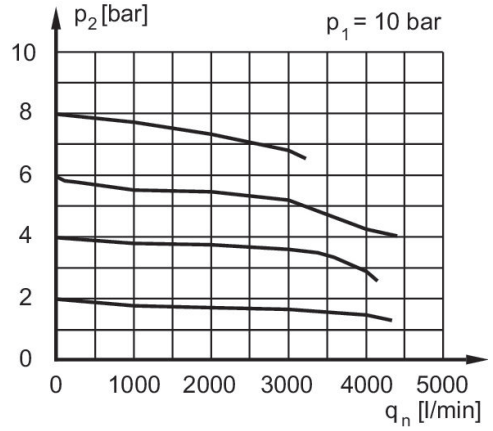
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300030	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300050	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010828	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300032	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300052	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010829	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148

Part No.	H	I	J	K	L	M
0821300030	6.5	69	65	50	70	42
0821300050	6.5	69	65	50	70	42
R412010828	6.5	69	65	50	70	42
0821300032	6.5	69	65	50	70	42

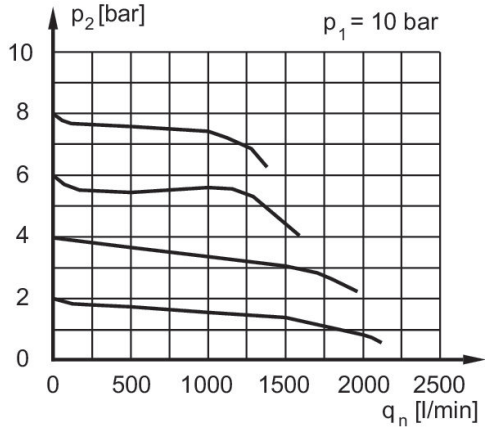
Part No.	H	I	J	K	L	M
0821300052	6.5	69	65	50	70	42
R412010829	6.5	69	65	50	70	42

Flow rate characteristic, size 4



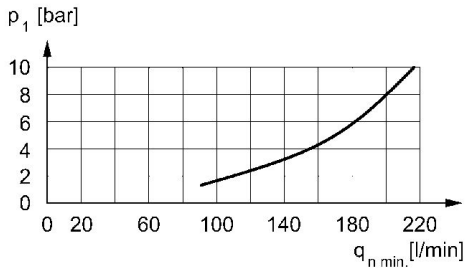
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Flow rate characteristic, size 2



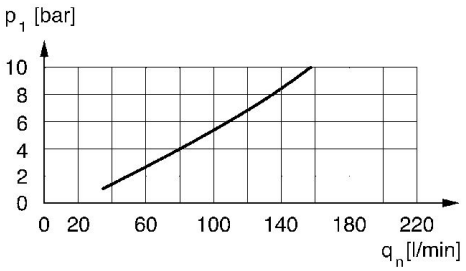
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Lubricator activation margin, size 4



p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Lubricator activation margin, size 2



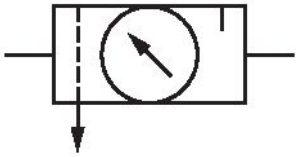
p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Universal air preparation unit, Series NLC

0821300032

General series information
AVENTICS Series NLC Air Preparation Units

- The AVENTICS Series NLC combines a pressure regulator, lubricator and filter all in one unit.



Technical data

Industry	Industrial
Parts	Air preparation units Pressure regulator Filter Lubricator
Reservoir	reservoir, polycarbonate, with metal protective guard
Port	G 3/8
Nominal flow Qn	1400 l/min
Filter porosity	40 µm
Condensate drain	Manual
Pressure gauge	with pressure gauge
Working pressure min.	0.5 bar
Working pressure max	16 bar
Min. ambient temperature	-10 °C
Max. ambient temperature	60 °C

Regulation range min.	0.5 bar
Regulation range max.	10 bar
Lock type	not lockable
Type	1-part
Pressure supply	single
Mounting orientation	vertical
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Filter element	exchangeable
Filter reservoir volume	25 cm³
Lubricator reservoir volume	75 cm³
Type of filling	Manual oil filling
Oil dosing at 1000 l/min	1-2 drops
Medium	Compressed air Neutral gases
Weight	1.3 kg

Material

Housing material	Die cast zinc
Seal material	Acrylonitrile butadiene rubber
Material reservoir	Polycarbonate
Material filter insert	Sintered bronze
Part No.	0821300032

Technical information

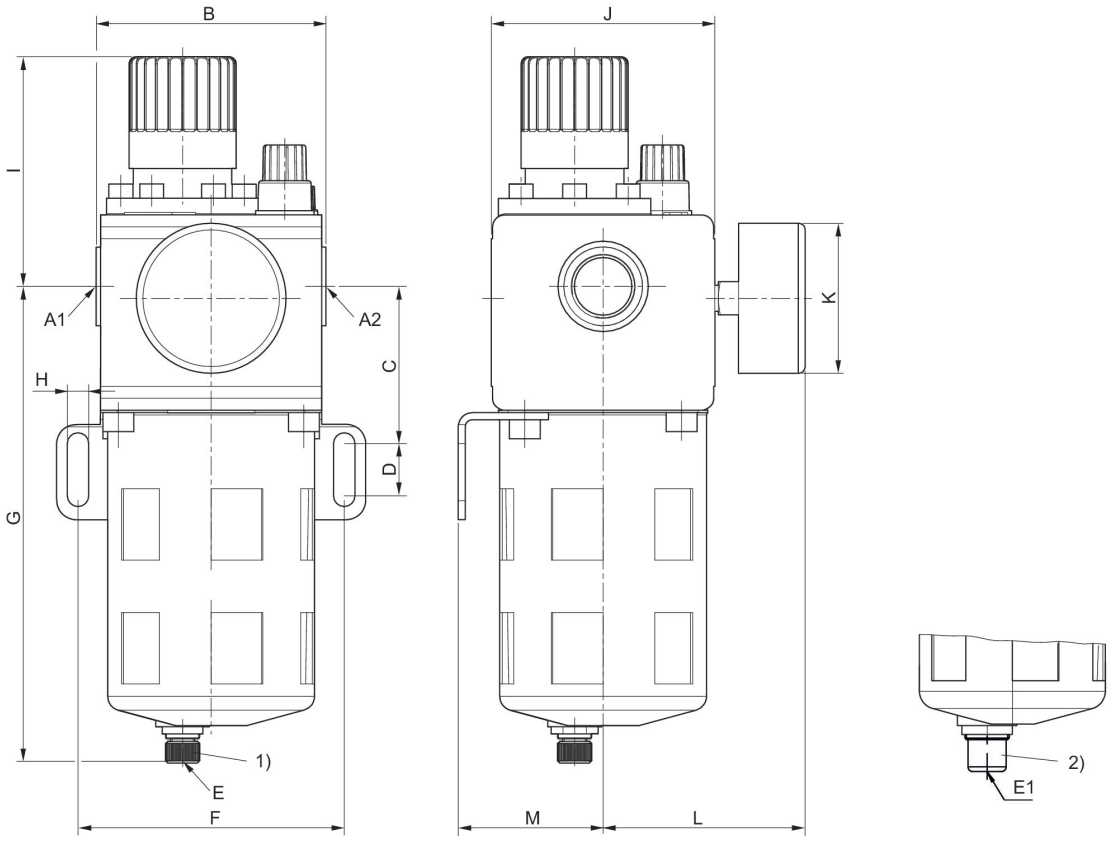
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

Manual oil filling possible during operation.

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions

Frame size 4



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

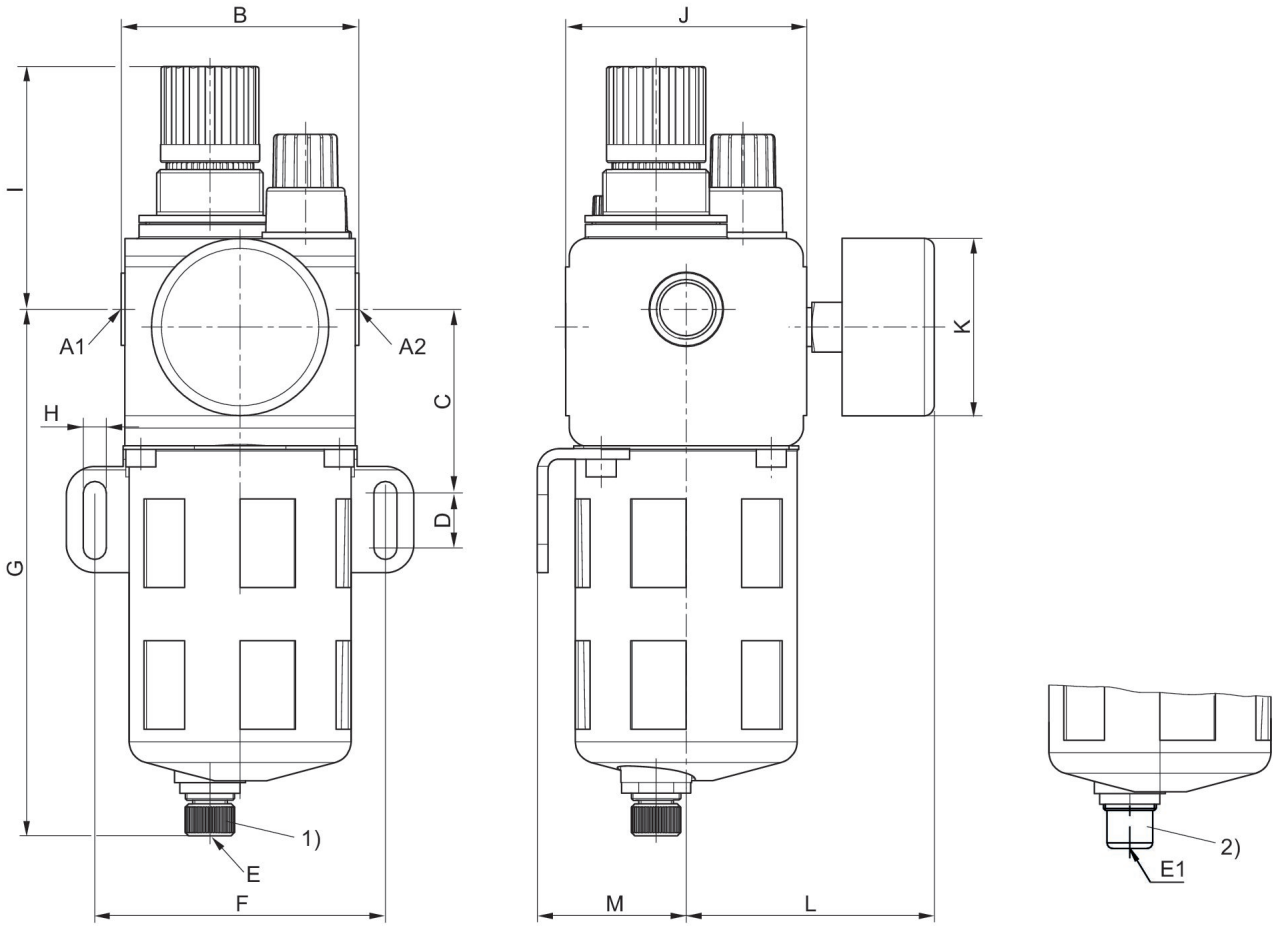
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300040	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300060	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010830	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300042	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300062	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010831	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200

Part No.	H	I	J	K	L	M
0821300040	9	97	92	63	85	61
0821300060	9	97	92	63	85	61
R412010830	9	97	92	63	85	61
0821300042	9	97	92	63	85	61
0821300062	9	97	92	63	85	61
R412010831	9	97	92	63	85	61

Dimensions

Frame size 2



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

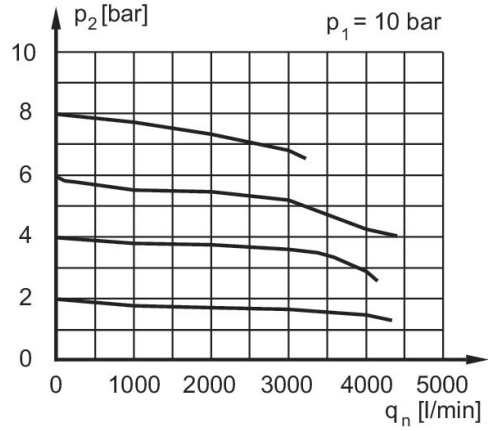
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300030	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300050	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010828	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300032	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300052	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010829	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148

Part No.	H	I	J	K	L	M
0821300030	6.5	69	65	50	70	42
0821300050	6.5	69	65	50	70	42
R412010828	6.5	69	65	50	70	42
0821300032	6.5	69	65	50	70	42

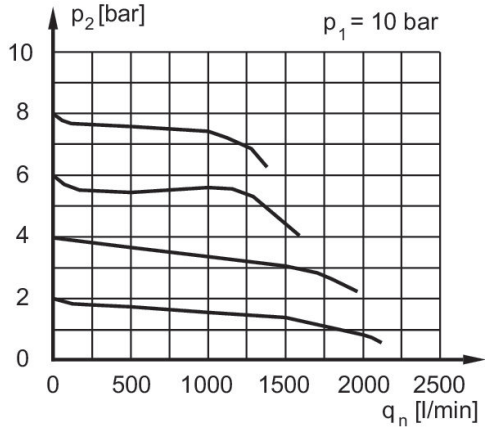
Part No.	H	I	J	K	L	M
0821300052	6.5	69	65	50	70	42
R412010829	6.5	69	65	50	70	42

Flow rate characteristic, size 4



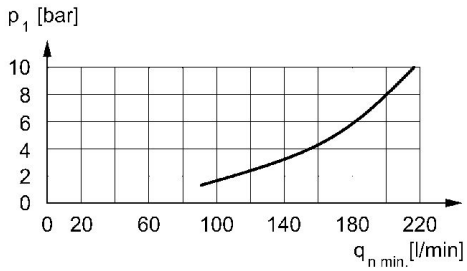
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Flow rate characteristic, size 2



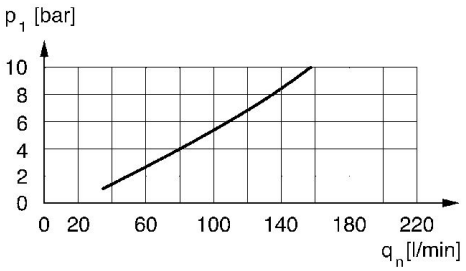
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Lubricator activation margin, size 4



p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Lubricator activation margin, size 2



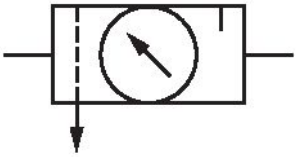
p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Universal air preparation unit, Series NLC

0821300040

General series information
AVENTICS Series NLC Air Preparation Units

- The AVENTICS Series NLC combines a pressure regulator, lubricator and filter all in one unit.



Technical data

Industry	Industrial
Parts	Air preparation units Pressure regulator Filter Lubricator
Reservoir	reservoir, polycarbonate, without protective guard
Port	G 1/2
Nominal flow Qn	3200 l/min
Filter porosity	40 µm
Condensate drain	Manual
Pressure gauge	with pressure gauge
Working pressure min.	0.5 bar
Working pressure max	16 bar
Min. ambient temperature	-10 °C
Max. ambient temperature	60 °C
Regulation range min.	0.5 bar

Regulation range max.	10 bar
Lock type	not lockable
Type	1-part
Pressure supply	single
Mounting orientation	vertical
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Filter element	exchangeable
Filter reservoir volume	75 cm³
Lubricator reservoir volume	150 cm³
Type of filling	Manual oil filling
Oil dosing at 1000 l/min	1-2 drops
Medium	Compressed air Neutral gases
Weight	3.28 kg

Material

Housing material	Die cast zinc
Seal material	Acrylonitrile butadiene rubber
Material reservoir	Polycarbonate
Material filter insert	Sintered bronze
Part No.	0821300040

Technical information

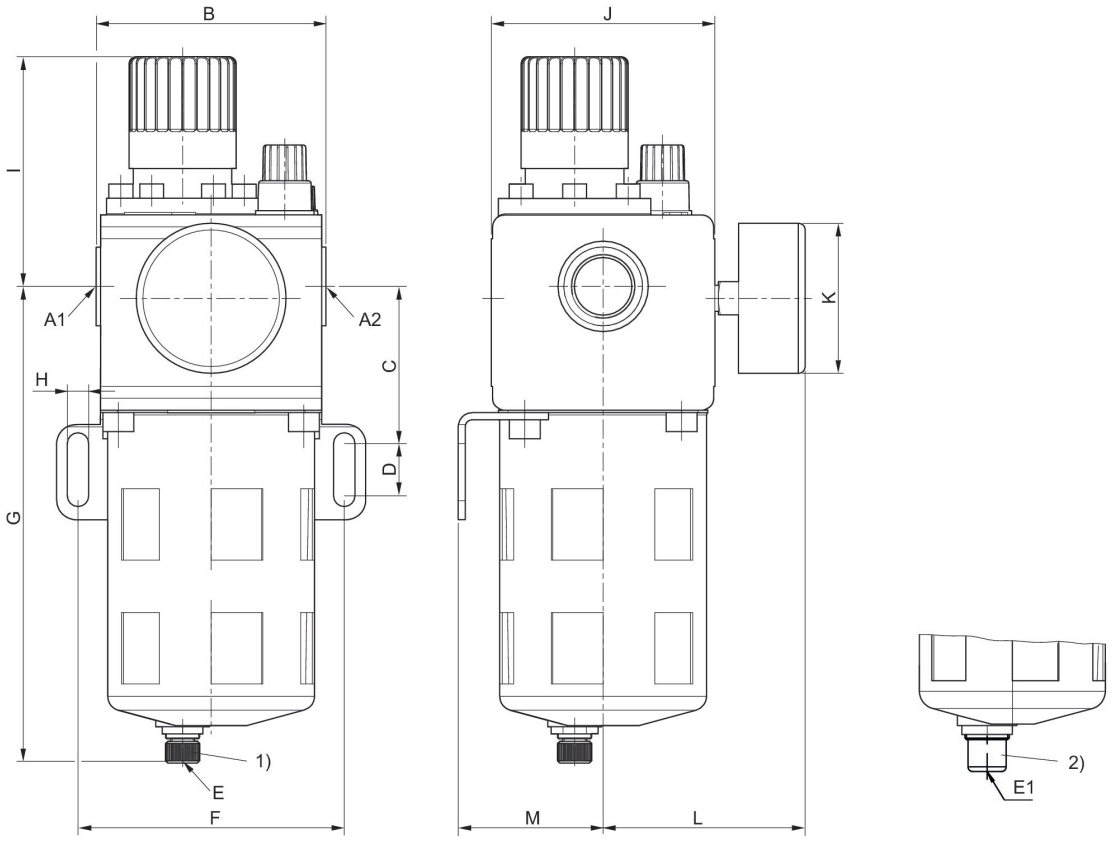
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

Manual oil filling possible during operation.

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions

Frame size 4



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

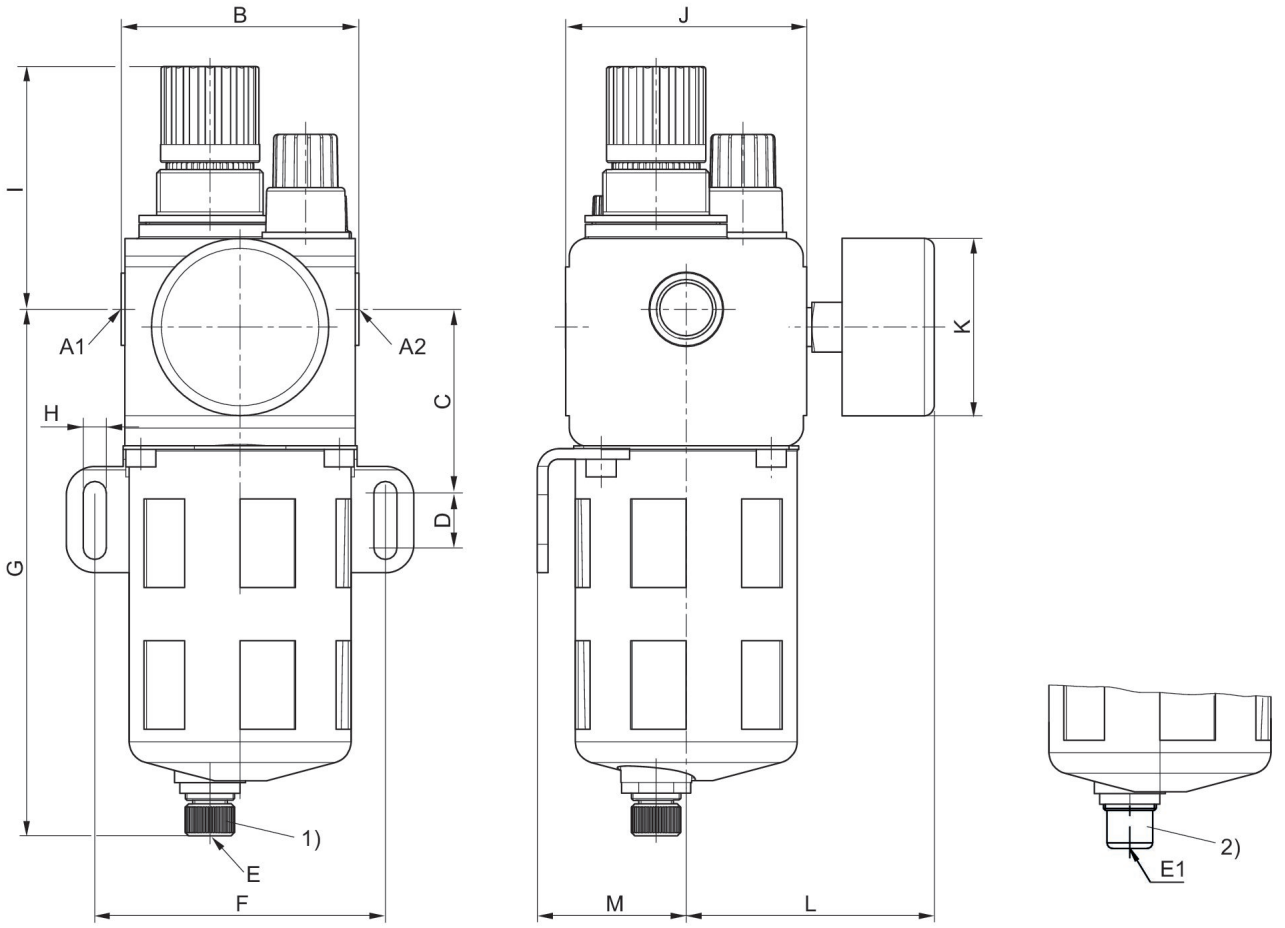
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300040	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300060	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010830	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300042	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300062	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010831	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200

Part No.	H	I	J	K	L	M
0821300040	9	97	92	63	85	61
0821300060	9	97	92	63	85	61
R412010830	9	97	92	63	85	61
0821300042	9	97	92	63	85	61
0821300062	9	97	92	63	85	61
R412010831	9	97	92	63	85	61

Dimensions

Frame size 2



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

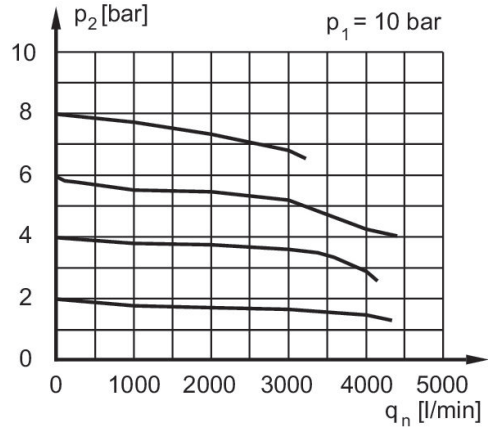
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300030	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300050	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010828	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300032	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300052	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010829	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148

Part No.	H	I	J	K	L	M
0821300030	6.5	69	65	50	70	42
0821300050	6.5	69	65	50	70	42
R412010828	6.5	69	65	50	70	42
0821300032	6.5	69	65	50	70	42

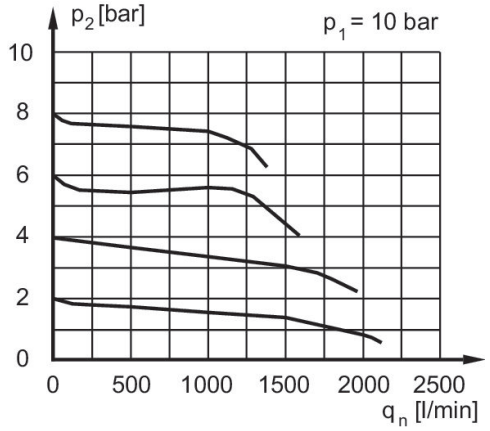
Part No.	H	I	J	K	L	M
0821300052	6.5	69	65	50	70	42
R412010829	6.5	69	65	50	70	42

Flow rate characteristic, size 4



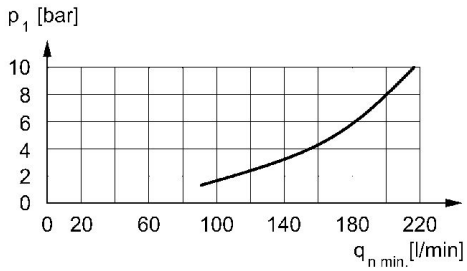
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Flow rate characteristic, size 2



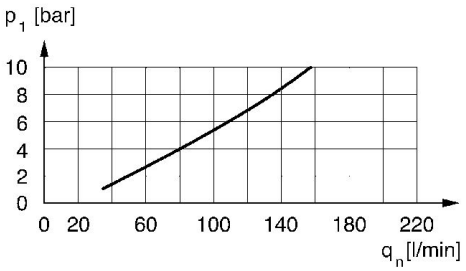
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Lubricator activation margin, size 4



p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Lubricator activation margin, size 2



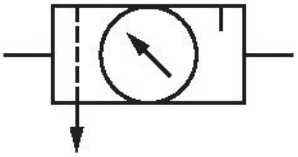
p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Universal air preparation unit, Series NLC

0821300050

General series information
AVENTICS Series NLC Air Preparation Units

- The AVENTICS Series NLC combines a pressure regulator, lubricator and filter all in one unit.



Technical data

Industry	Industrial
Parts	Air preparation units Pressure regulator Filter Lubricator
Reservoir	reservoir, polycarbonate, without protective guard
Port	G 1/4
Nominal flow Qn	1400 l/min
Filter porosity	40 µm
Condensate drain	Manual
Pressure gauge	with pressure gauge
Working pressure min.	0.5 bar
Working pressure max	16 bar
Min. ambient temperature	-10 °C
Max. ambient temperature	60 °C
Regulation range min.	0.5 bar

Regulation range max.	10 bar
Lock type	not lockable
Type	1-part
Pressure supply	single
Mounting orientation	vertical
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Filter element	exchangeable
Filter reservoir volume	25 cm³
Lubricator reservoir volume	75 cm³
Type of filling	Manual oil filling
Oil dosing at 1000 l/min	1-2 drops
Medium	Compressed air Neutral gases
Weight	1.44 kg

Material

Housing material	Die cast zinc
Seal material	Acrylonitrile butadiene rubber
Material reservoir	Polycarbonate
Material protective guard	Steel, chrome-plated
Material filter insert	Sintered bronze
Part No.	0821300050

Technical information

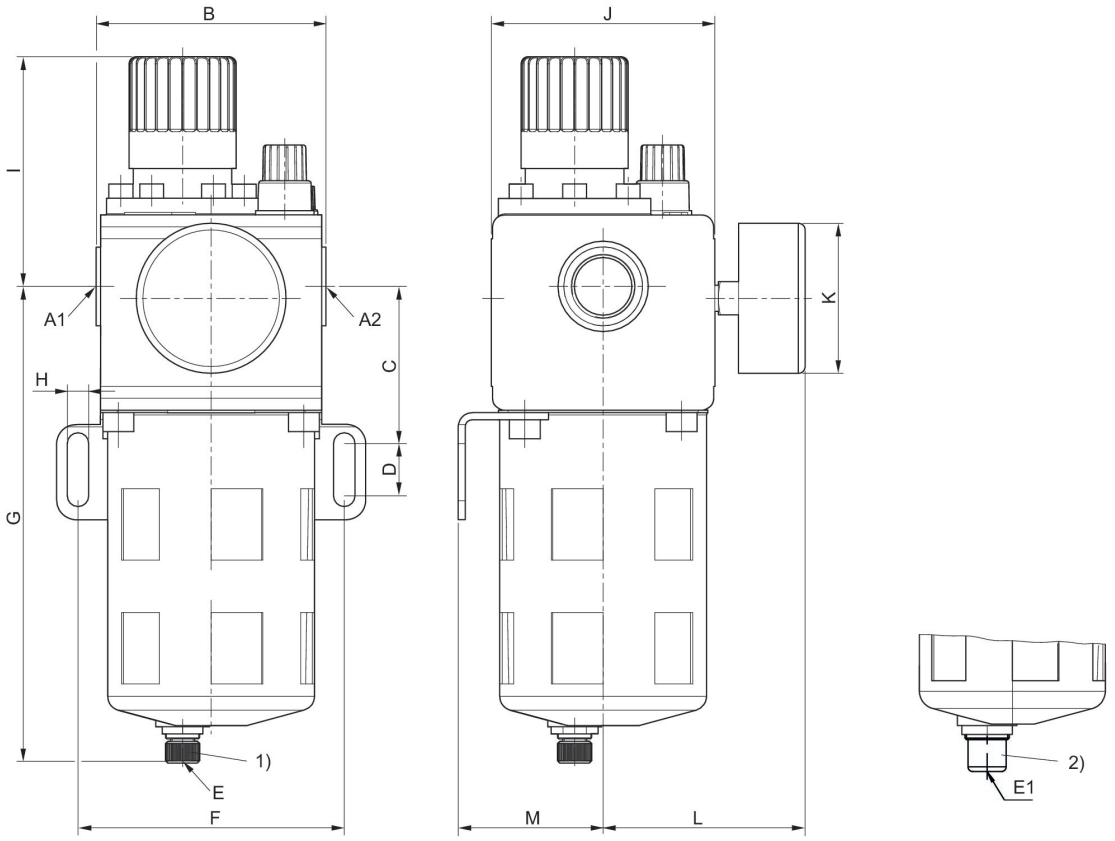
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

Manual oil filling possible during operation.

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions

Frame size 4



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

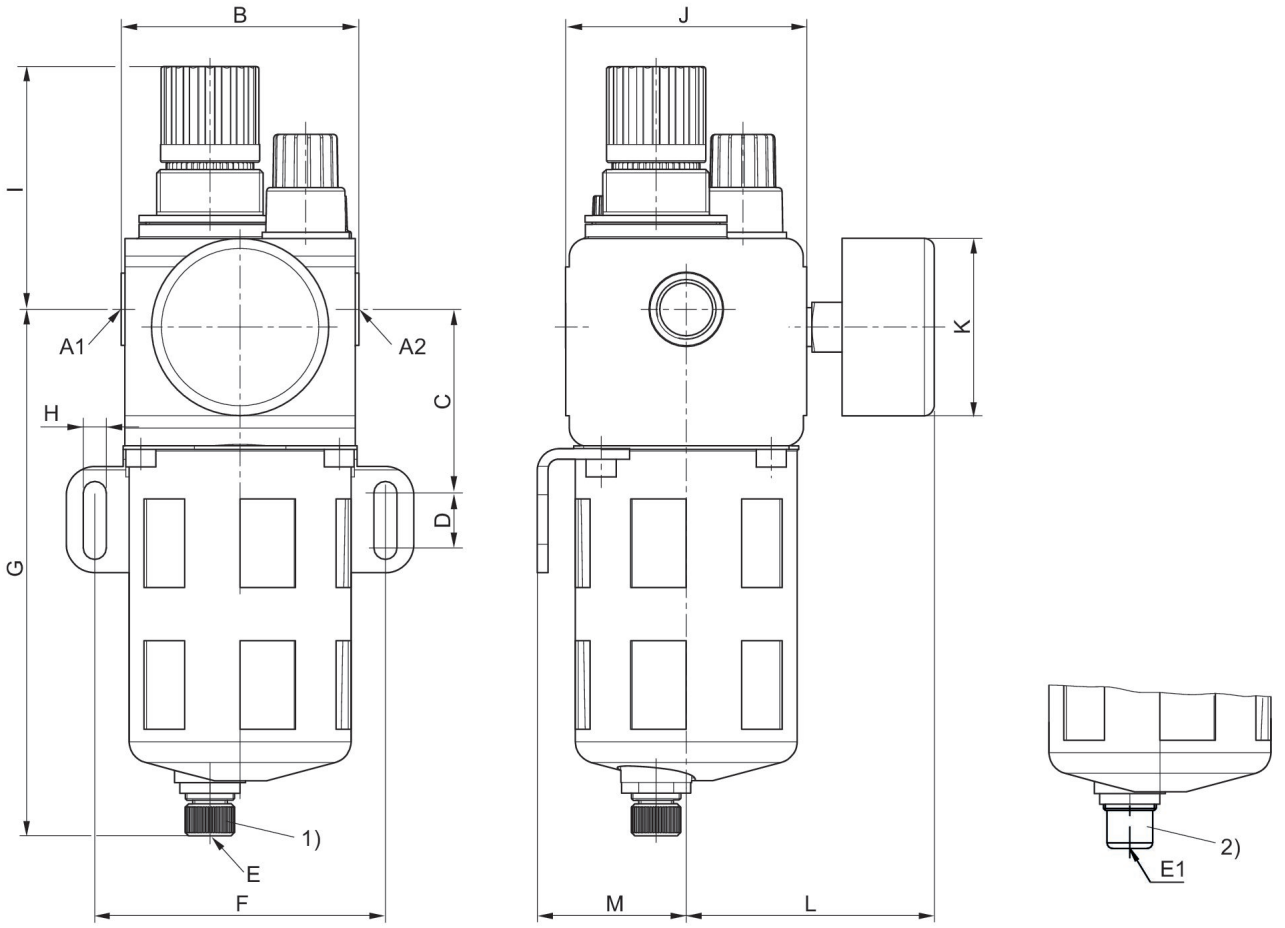
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300040	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300060	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010830	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300042	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300062	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010831	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200

Part No.	H	I	J	K	L	M
0821300040	9	97	92	63	85	61
0821300060	9	97	92	63	85	61
R412010830	9	97	92	63	85	61
0821300042	9	97	92	63	85	61
0821300062	9	97	92	63	85	61
R412010831	9	97	92	63	85	61

Dimensions

Frame size 2



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

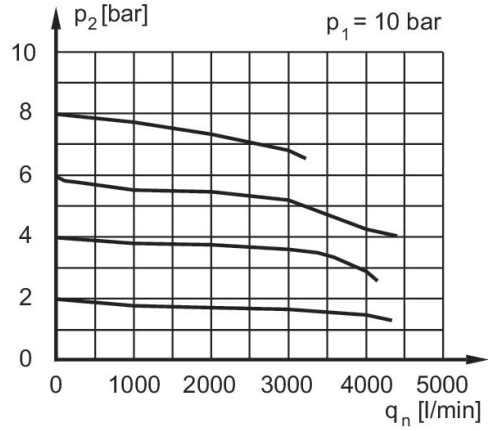
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300030	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300050	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010828	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300032	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300052	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010829	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148

Part No.	H	I	J	K	L	M
0821300030	6.5	69	65	50	70	42
0821300050	6.5	69	65	50	70	42
R412010828	6.5	69	65	50	70	42
0821300032	6.5	69	65	50	70	42

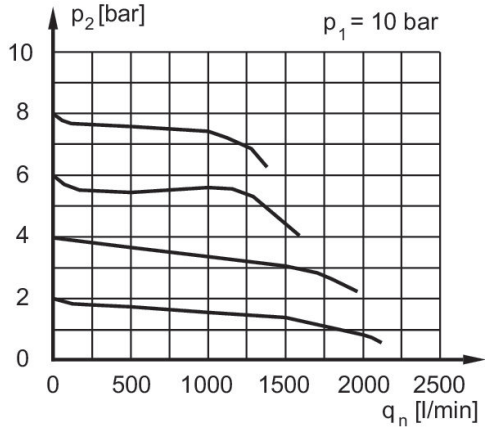
Part No.	H	I	J	K	L	M
0821300052	6.5	69	65	50	70	42
R412010829	6.5	69	65	50	70	42

Flow rate characteristic, size 4



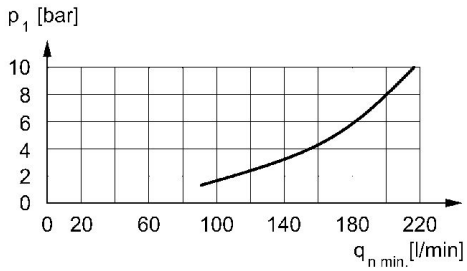
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Flow rate characteristic, size 2



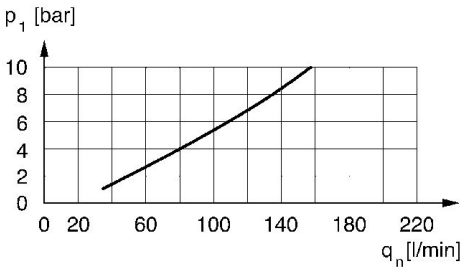
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Lubricator activation margin, size 4



p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Lubricator activation margin, size 2



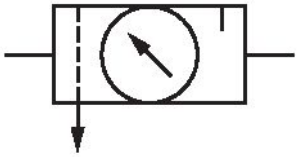
p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Universal air preparation unit, Series NLC

0821300052

General series information
AVENTICS Series NLC Air Preparation Units

- The AVENTICS Series NLC combines a pressure regulator, lubricator and filter all in one unit.



Technical data

Industry	Industrial
Parts	Air preparation units Pressure regulator Filter Lubricator
Reservoir	reservoir, polycarbonate, with metal protective guard
Port	G 3/8
Nominal flow Qn	1400 l/min
Filter porosity	40 µm
Condensate drain	Manual
Pressure gauge	with pressure gauge
Working pressure min.	0.5 bar
Working pressure max	16 bar
Min. ambient temperature	-10 °C
Max. ambient temperature	60 °C

Regulation range min.	0.5 bar
Regulation range max.	10 bar
Lock type	not lockable
Type	1-part
Pressure supply	single
Mounting orientation	vertical
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Filter element	exchangeable
Filter reservoir volume	25 cm³
Lubricator reservoir volume	75 cm³
Type of filling	Manual oil filling
Oil dosing at 1000 l/min	1-2 drops
Medium	Compressed air Neutral gases
Weight	1.38 kg

Material

Housing material	Die cast zinc
Seal material	Acrylonitrile butadiene rubber
Material reservoir	Polycarbonate
Material protective guard	Steel, chrome-plated
Material filter insert	Sintered bronze
Part No.	0821300052

Technical information

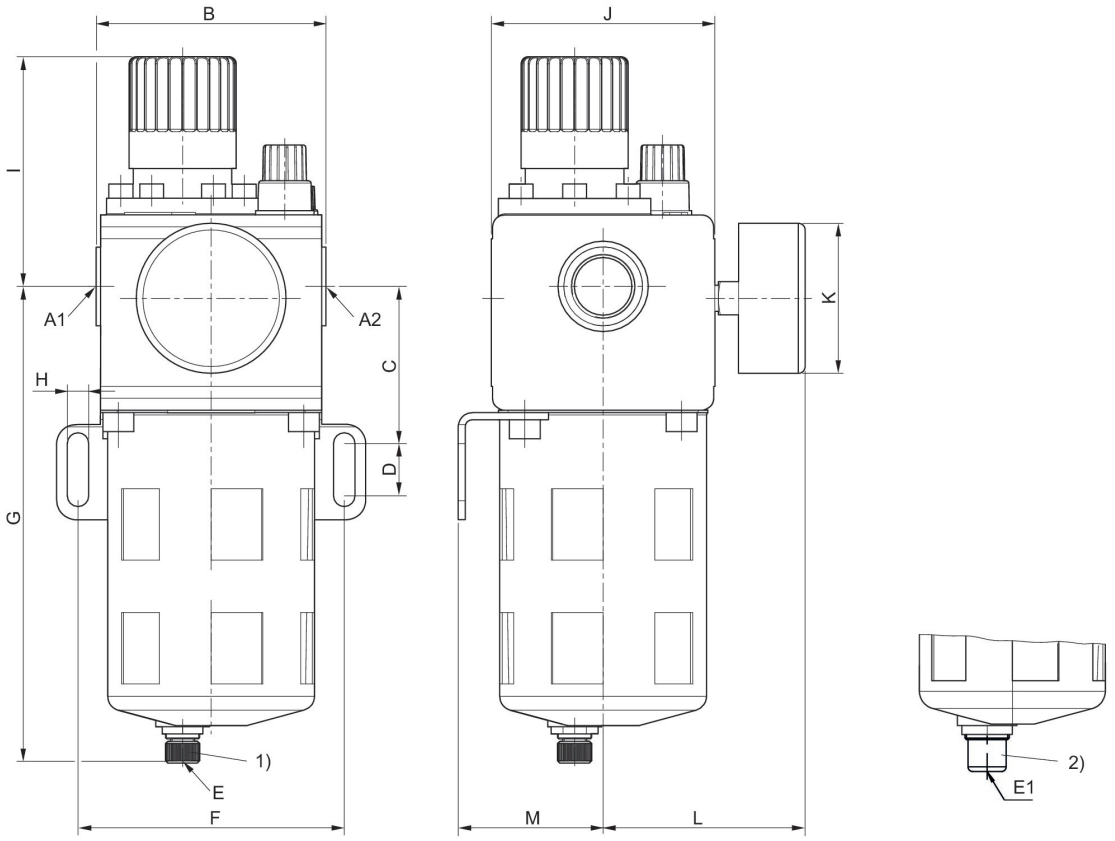
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

Manual oil filling possible during operation.

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions

Frame size 4



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

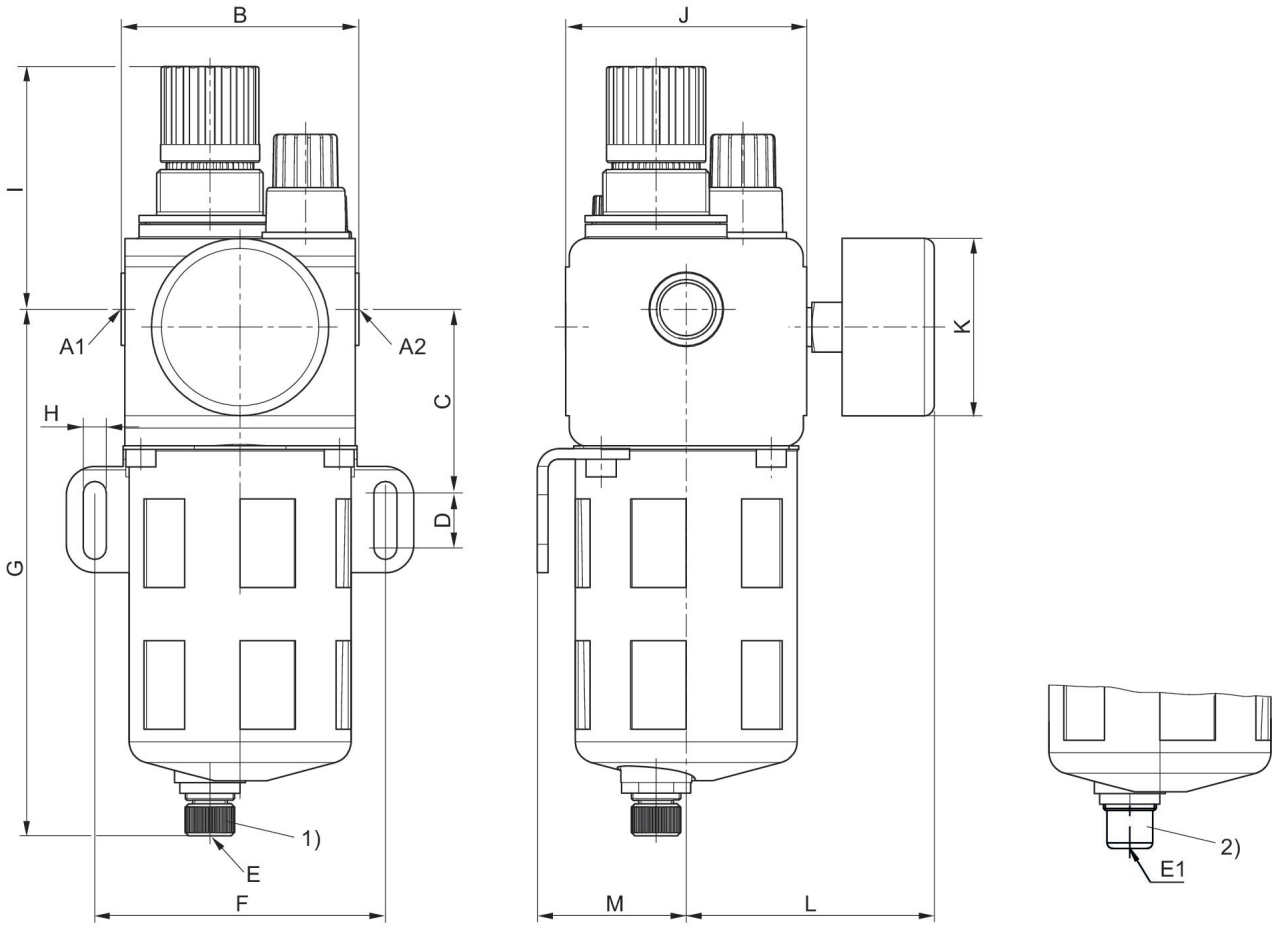
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300040	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300060	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010830	G 1/2	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300042	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
0821300062	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200
R412010831	G 3/4	G 3/4	93	66	22	G 1/8	G 1/8	112	200

Part No.	H	I	J	K	L	M
0821300040	9	97	92	63	85	61
0821300060	9	97	92	63	85	61
R412010830	9	97	92	63	85	61
0821300042	9	97	92	63	85	61
0821300062	9	97	92	63	85	61
R412010831	9	97	92	63	85	61

Dimensions

Frame size 2



A1 = input A2 = output
1) Fully automatic condensate drain
2) Semi-automatic condensate drain

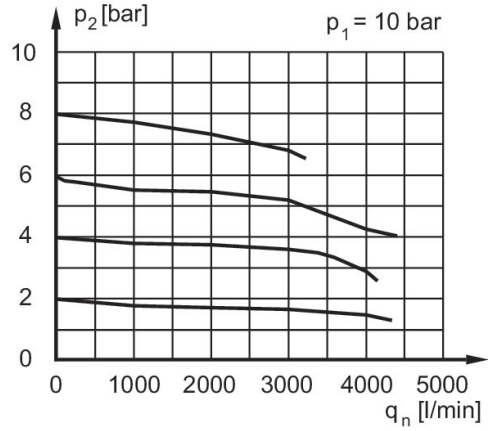
Dimensions in mm

Part No.	A1	A2	B	C	D	E	E1	F	G
0821300030	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300050	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010828	G 1/4	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300032	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
0821300052	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148
R412010829	G 3/8	G 1/4	66	52	15.5	SW5	G 1/8	82	148

Part No.	H	I	J	K	L	M
0821300030	6.5	69	65	50	70	42
0821300050	6.5	69	65	50	70	42
R412010828	6.5	69	65	50	70	42
0821300032	6.5	69	65	50	70	42

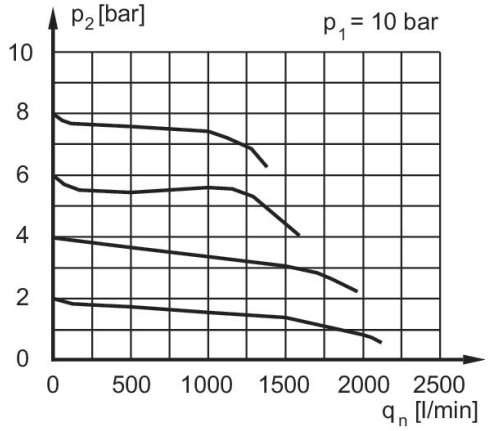
Part No.	H	I	J	K	L	M
0821300052	6.5	69	65	50	70	42
R412010829	6.5	69	65	50	70	42

Flow rate characteristic, size 4



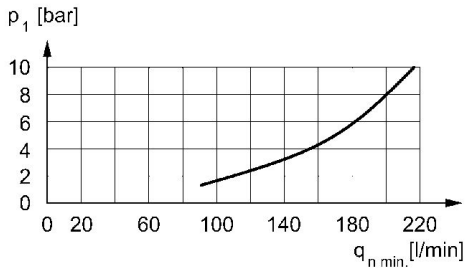
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Flow rate characteristic, size 2



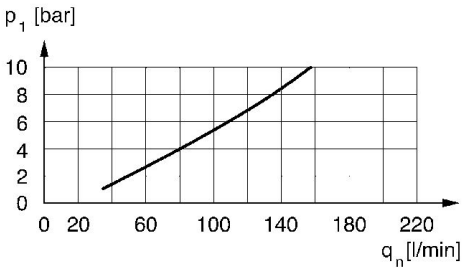
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Lubricator activation margin, size 4



p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Lubricator activation margin, size 2



p1 = Working pressure
qn = Nominal flow
Flow rate necessary for the correct functioning of the lubricator

Reservoir, Series NLC-CLS-SSS-HO

- for universal air preparation unit
- Material metal

Version	Reservoir
Version	Metal reservoir without window
Working pressure min./max.	1.5 ... 16 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Weight	See table below

Technical data

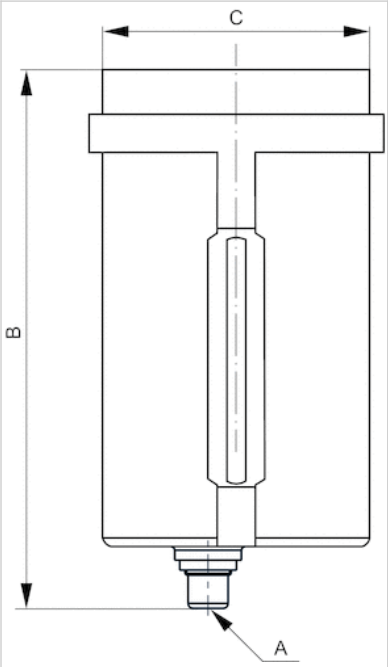
Part No.	Condensate drain	Filter reservoir volume	Weight
R412010835	semi-automatic, open without pressure	960 cm³	0.92 kg
R412010836	semi-automatic, open without pressure	2360 cm³	2.17 kg

Technical information

Material	
Reservoir	metal
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions in mm

Part No.	A	B	ØC
R412010835	G 1/8	140	60
R412010836	G 1/8	188	84

Reservoir, Series NLC-CLS-PNB

- for universal air preparation unit
- Material Polycarbonate

Version	Reservoir
Mounting orientation	vertical
Working pressure min./max.	1.5 ... 16 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air

Technical data

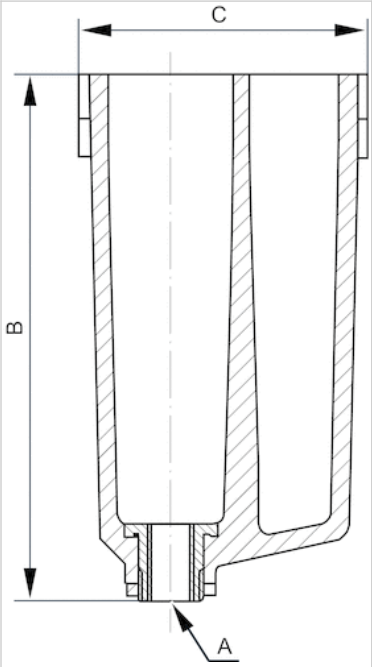
Part No.	Condensate drain	Filter reservoir volume
1820510005	without	400 cm³

Technical information

Material	
Reservoir	Polycarbonate
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions in mm

Part No.	A	B	C
1820510005	G 1/8	128	60

Reservoir, Series NLC-CLS-PNB-HO

- for universal air preparation unit
- Material Polycarbonate

Version	Reservoir
Mounting orientation	vertical
Working pressure min./max.	1.5 ... 16 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air

Technical data

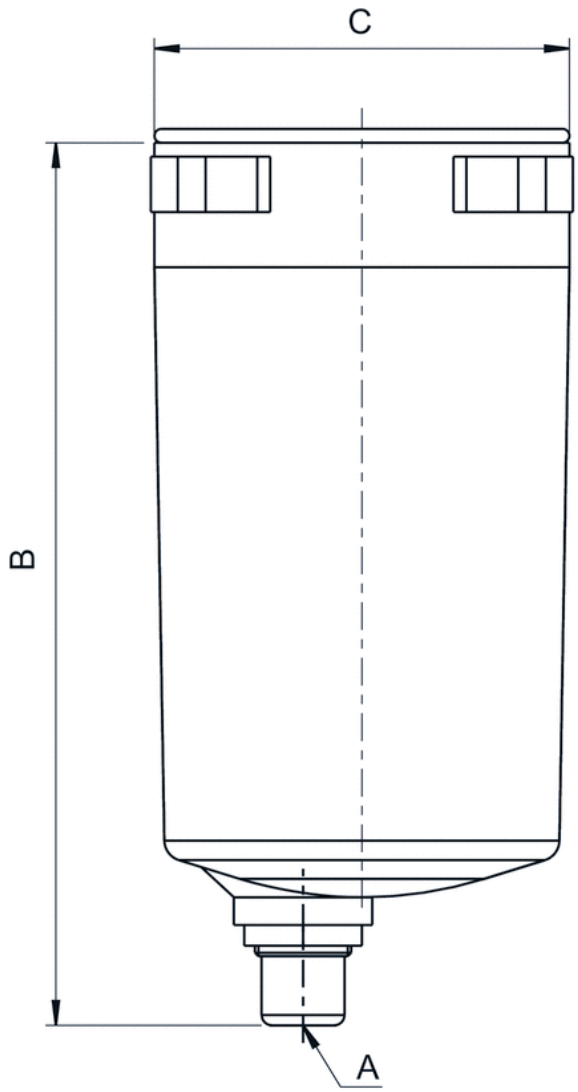
Part No.	Condensate drain	Filter reservoir volume
R412010833	semi-automatic, open without pressure	400 cm³

Technical information

Material	
Reservoir	Polycarbonate
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions in mm

Part No.	A	B	C
R412010833	G 1/8	128	60

Protective guard, Series NLC

- for universal air preparation unit

Weight 0.09 kg

Technical data

Part No.	Type
1820507002	NLC Frame size 2
1820507003	NLC Frame size 4

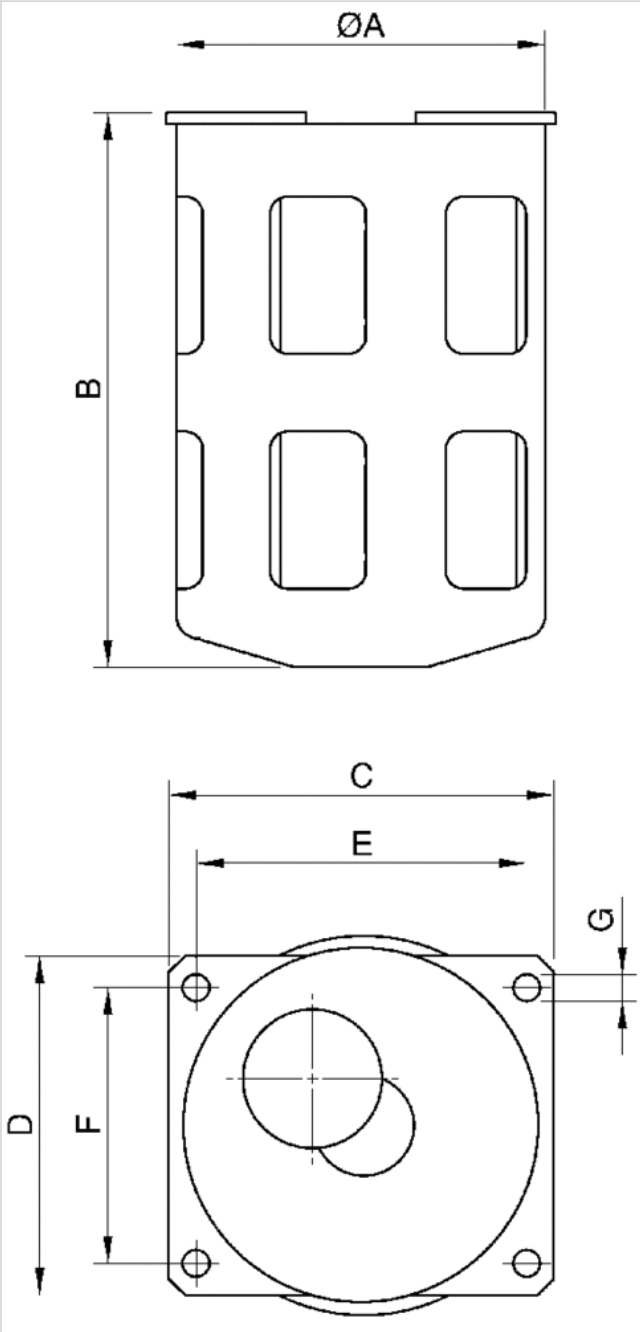
Technical information

Can be retrofitted for PC reservoir

Technical information

Material	
Material	Steel black oxidized

Dimensions



Dimensions in mm

Part No.	Type	A	B	C	D	E	F	G
1820507002	NLC Frame size 2	63	94.5	66	58	56	48	5.5
1820507003	NLC Frame size 4	87	132.5	93	80	78	66	8.5

Condensate drain valve, fully automatic, Series NLC

- G 1/2
- Material metal

Mounting orientation	vertical
Working pressure min./max.	4 ... 16 bar
Ambient temperature min./max.	0 ... 90 °C
Medium temperature min./max.	0 ... 90 °C
Medium	Compressed air
Filter reservoir volume	49 cm³
Weight	0.231 kg

Technical data

Part No.	Condensate drain
0821303015	fully automatic, closed without pressure

Technical information

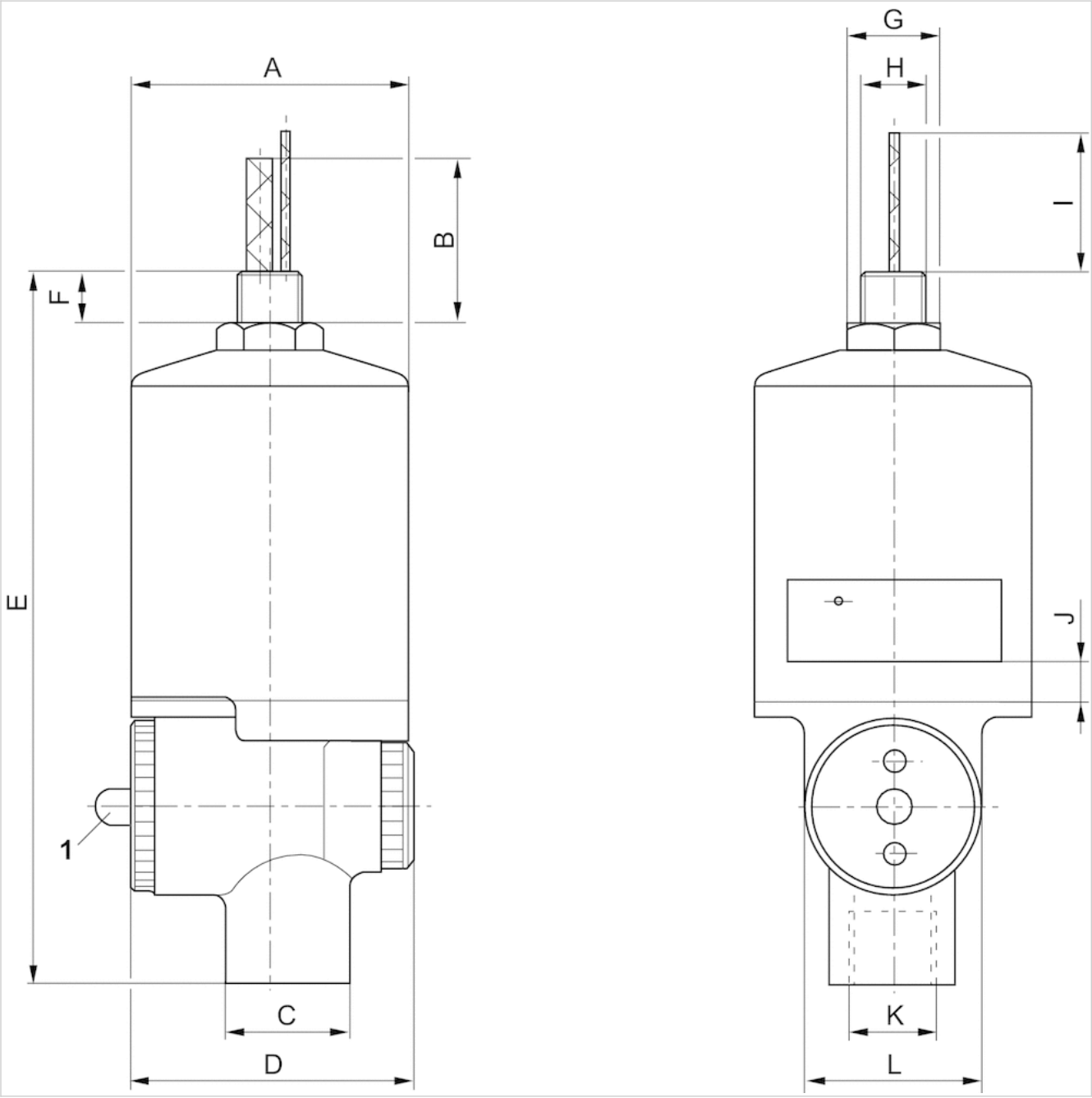
For installation on all NLC series containers.
Can be installed instead of a manual or semi-automatic condensate drain.

Technical information

Material	
Reservoir	metal
Seal	Nitrile butadiene rubber

Dimensions

Dimensions

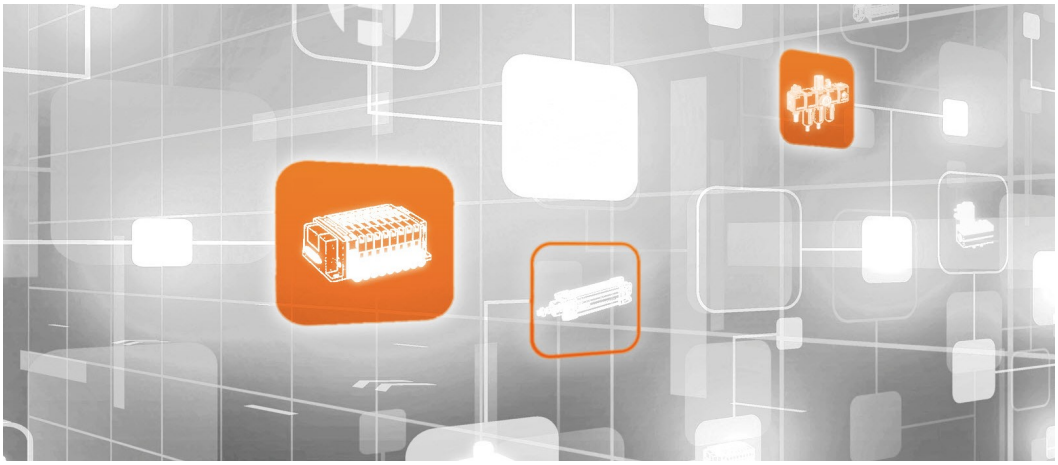


1 = Manual override

Dimensions in mm

Part No.	A	B	ØC	D	E	F	G	H	I	J	K	L
0821303015	42	25	19	43	108	8	SW14	R1/8	21	6	R1/4	27

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



Visit us: Emerson.com/Aventics

Your local contact: Emerson.com/contactus

Emerson.com

Facebook.com/EmersonAutomationSolutions

LinkedIn.com/company/Emerson-Automation-Solutions

Twitter.com/EMR_Automation

2022-12-21

EMERSON

CONSIDER IT SOLVED™